

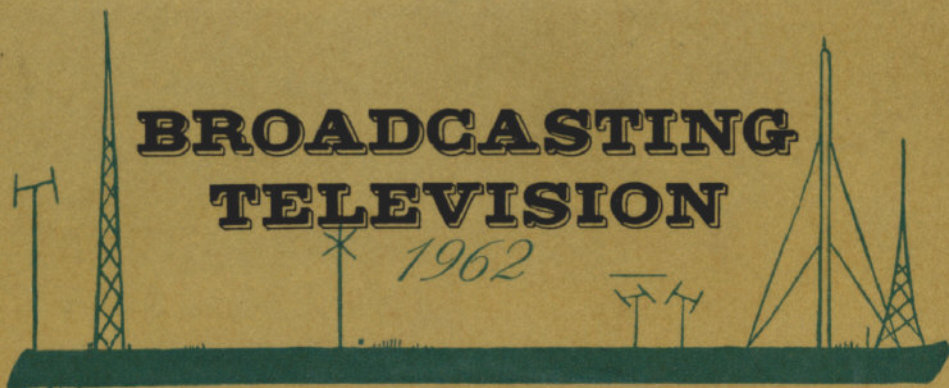
WORLD RADIO TV HANDBOOK

16th edition



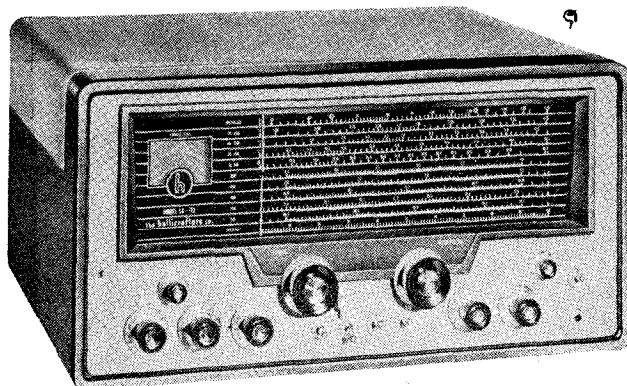
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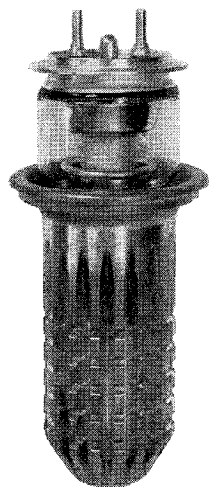
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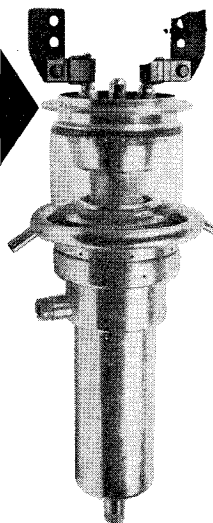
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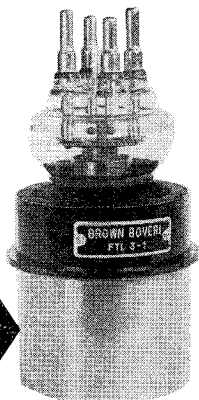
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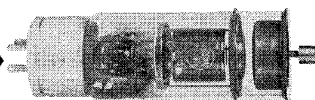
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KUDOS FROM A WANDERER:

During the last two years, I have conducted special surveys of the radio and television situations in some 40 countries, notably in Latin America and Africa - and everywhere I went, whether among tele-



Martin Codel.

communications officials of the government, shortwave and amateur operators, radio broadcasters and television executives, I found World Radio & Television Handbook in everyday use. It certainly is an indispensable handmaiden to my efforts, and I carry it with me on all my travels. Its accuracy and integrity are as unquestionable as its usefulness in the fastmoving fields of telecommunications everywhere in the world.

Martin Codel - Washington, D.C.
TV-Radio-Telecommunications Consultant
(Former editor & publisher of Television Digest and Broadcasting Magazine, USA)

Send us your wishes and criticism

An appeal to all interested in radio and television, to sellers and purchasers of World Radio Television Handbook.

We need your criticism - your wishes - and your help in order year by year to improve World Radio Television Handbook.

Your wishes should contain positive proposals and be accompanied by details and examples of the improvements you suggest.

Your criticism even though severe, will be welcomed provided it is positive and sensible.

Your help may also comprise sensible suggestions regarding the dissemination of Radio Television Handbook, sales methods and so forth.

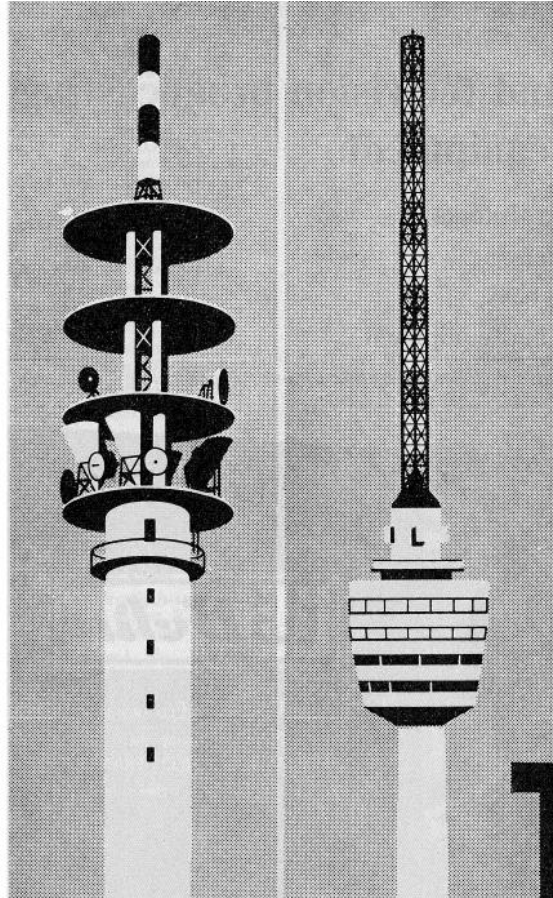
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Answers should be submitted by 1st June 1962 at the latest, either direct, to World Radio Television Handbook Lindorfsalle 1, Hellerup, Denmark or through our representatives.

The Editor of the World Radio Television Handbook seeks information from all stations engaged in broadcasting and interested in international broadcasting and publishes the information as communicated to him by the stations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply these information or for changes in the times and wavelengths of programmes made after the current edition has gone to press. We ask you to pay note to the last minute information and corrections; (see page 227).



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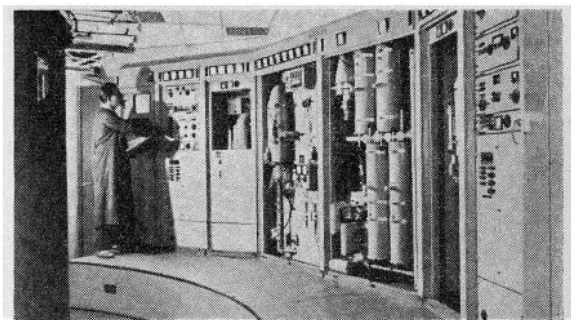
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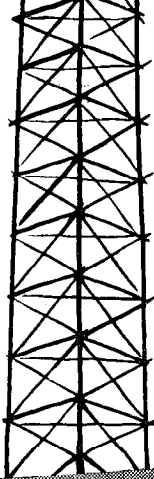
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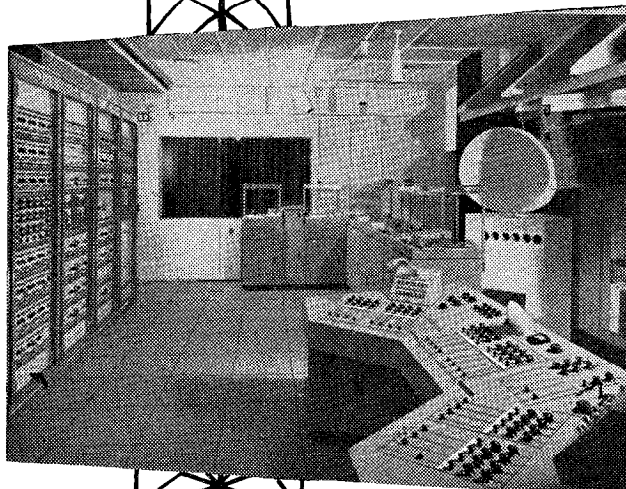
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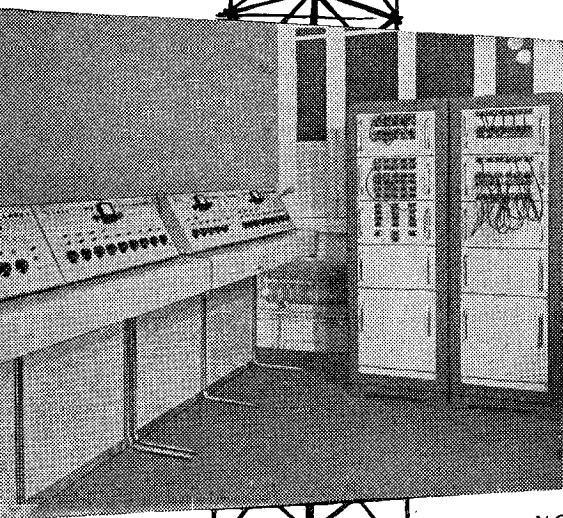
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WORLD RADIO TV HANDBOOK

BROADCASTING-TELEVISION

1962

including World-wide Radio WHO's WHO

Sixteenth Edition

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★

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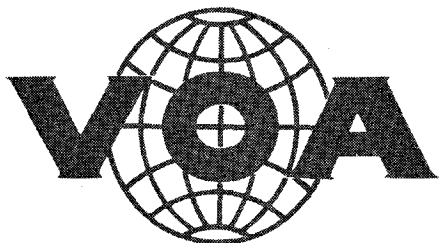
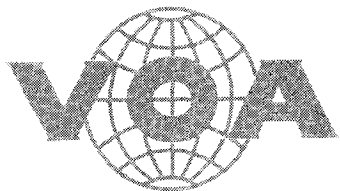
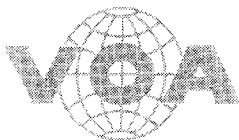
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**BROADCASTS IN
36 LANGUAGES
OVER A NETWORK
OF 87 TRANSMITTERS
AROUND THE CLOCK
AROUND THE GLOBE**

VOICE OF AMERICA

U. S. INFORMATION AGENCY, WASHINGTON, 25, D.C.

P R E F A C E S

Thanks to the assistance and cooperation of practically all existing broadcasting and television organizations and stations, together with persons in many countries, it has proved possible with this edition of *World Radio Television Handbook* – the sixteenth – to provide a virtually complete picture of broadcasting and television in all countries. I must express my hearty thanks for the interest for, and understanding of, our work thus evinced. As a result, *World Radio Television Handbook* is able year by year with increasing efficiency to fulfil its purpose: the promotion of understanding and goodwill between the peoples by helping to establish cooperation between the organizations and persons that are working for the further development and dissemination of broadcasting and television, and by guidance helping people to obtain, through the medium of broadcasting and television, increased knowledge of each other's outlook, culture, and standard of living. *World Radio Television Handbook* is meant as an appeal to the broadcasting world to work together in peace, so that the technique available may be utilized in the cause of good and not for the furtherance of hate and intolerance. May these lines also be an appeal to those engaged in broadcasting all over the world and all those interested, irrespective of political, religious or racial sympathies, to continue to give their aid for the achievement of our purpose.

O. Lund-Johansen.

★



Jean d'Arcy, United Nations

Since the dawn of civilization the evolution of human societies has steadily gained momentum. Today the acceleration of history is, perhaps, more evident than ever before. Scientific, technical and political developments follow one upon the other with almost bewildering speed.

The field of communications is an example of this acceleration – as the *WORLD RADIO TELEVISION HANDBOOK* so strikingly reveals. To study the current edition with those of ear-

lier years is to realise how greatly the opportunities for men and nations to communicate have increased. But it is already clear that the spectacular growth of television, and the ever expanding services of radio, is no more than an overture to what we may expect in the next few years – when communication satellites will have become commonplace and could create what, on the analogy of "Eurovision", might be called "Univision".

With this as the prospect the responsibilities of those engaged in the arts and techniques of communication, to foster truth and understanding, increase in parallel with the opportunities.

At this point in our evolution it is tempting, sometimes, to wonder if a moratorium on all "communication", all "information", might not help the world to catch its breath, and shed some of the fear that seems to be so much a part of our life. A silent world, for even a limited time

might well have its attractions! Unfortunately, silence can also be frightening, and ignorance is not bliss.

So the challenge remains: to make better use of the opportunities science and technology have already given us, and of those it is about to give.

Jean d'Arcy
Director Radio and Visual Services
Office of Public Information
United Nations

★



Raúl Fontaina,
Inter American Association
of Broadcasters

WORLD RADIO TELEVISION HANDBOOK, as an international publication, renders high worldwide service. Its pages contain precious information so that the whole humankind may immediately gather the voices of radiobroadcasting, and in consequence is duly, quickly and truly aware of facts occurring in any place on earth. – The advances of radio and television have reached stages perhaps never dreamed of by radio pioneers, which make even more important the circulation of *WRTH* all over the

world. The radio medium has become the muscle and nerve of international communications, thus helping peoples fraternity and understanding in most of the countries. –

Radio and TV nets and projected satellite transmission will better approach human beings and will expedite the comprehension of their problems and their solution so as to assist the attaining of so much yearned peace and welfare. –

Now more than ever *WORLD RADIO TELEVISION HANDBOOK* is an invaluable informative medium for establishing communications and correct dial position of programs. Nobody willing to be duly informed could avoid using this important publication. –

My congratulations for rendering such useful and magnificent service.

Raúl Fontaina
President
Inter American Association of Broadcasters

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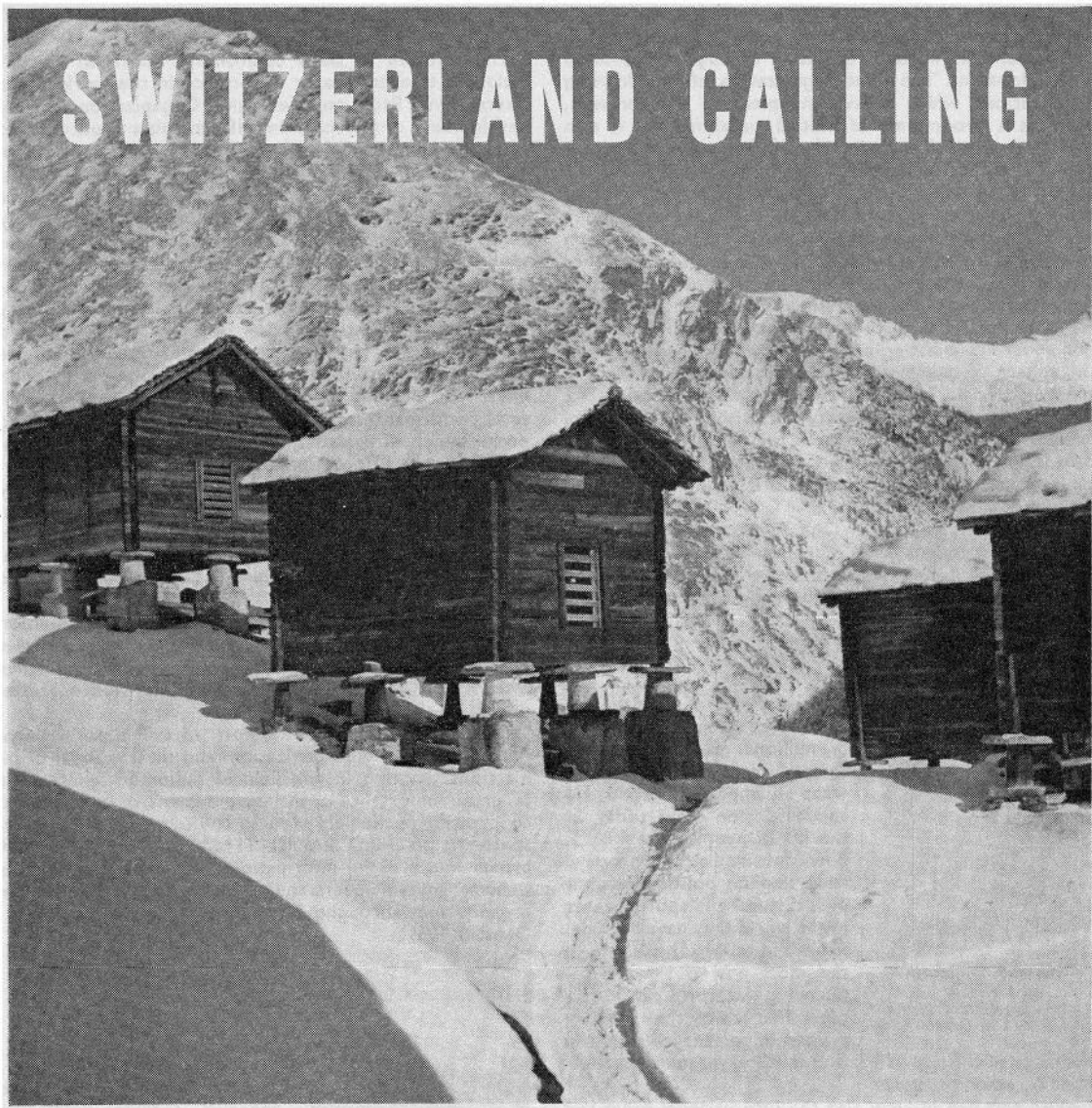


Olaf Rydbeck,
European Broadcasting Union

To-day, in the face of rapidly expanding Television services throughout the world, we must re-double our efforts to achieve within Television that degree of intimate co-operation built up over the past years in the field of Sound radio. Intercontinental communications are being constantly improved and the future holds forth many new and interesting developments. At the same time it is a matter of great importance and urgency that the

(Continued page 6)

SWITZERLAND CALLING



Daily: News and Commentaries – Country-Music
Classical Concerts – Feature Programmes – Special
Programmes for DXers, young people and jazz fans

more advanced countries, as regards radio and television, place their knowledge and experience at the disposal of those countries which are passing through the process of development. The joint organization of Broadcasting Corporations, which I have the pleasure to represent, operates a programme of mutual assistance and is also anxious to assist all countries needing expert help whether or not they are members of the European Broadcasting Union. In this connection I want to mention that the Union's Technical Commission has taken the initiative in publishing a series of technical monographs. The main purpose of these monographs is to put the experience gained in a variety of technics by certain broadcasting organizations at the disposal of other organizations. All measures designed to impart knowledge and information about broadcasting organizations are of great value in the sphere of international co-operation. In this context the *World Radio Television Handbook* serves a most useful purpose. For all those who work within the media of Radio and Television, this book is not only a record of Broadcasting and Television Corporations and their organizations, but also an address list of friends and colleagues throughout the world.

Olof Rydbeck

President of the European Broadcasting Union
Director General of the
Swedish Broadcasting Corporation



J. Hřebík
International Broadcasting
and Television Organization

The existence of hundreds of millions of radio sets and tens of millions of television sets throughout the world suggests what an important role radio and television plays today in the life of peoples and what a powerful media of operative reporting on political, economic, cultural and sports events in the world they have become. Radio and television are among the most powerful media influencing the world public opinion. That is why they can play a very important role in the

exchange of cultural values and in fostering mutual understanding among peoples.

With this aim in view also the International Radio and Television Organization (OIRT) was created in 1946. The Organization today is grouping 22 radio and television organizations of Europe, Asia, Africa and Latin America. The aim of this organization, whose seat is in Prague, is to help in initiating and fostering international cooperation among radio and television organizations of different countries, to contribute to the exchange of experiences in the field of radio and television, to help in the development of new forms of radio and television broadcasts and to organize international exchange of radio and television programmes.

An important field of work of the International Radio and Television Organization is the organization of international competitions and festivals, joint cycles of popular science, etc. Of great significance in the realisation of the

above mentioned objectives are regularly convened conferences of experts of radio and television programmes.

The solution of tasks confronting television organizations is of ever greater importance in the work of the International Radio and Television Organization. Speedy development of television in OIRT member countries and ever growing programme requirements of millions of television viewers pose the question of international exchange of television programmes and television films very urgently. For this reason, the formation in February 1960 of *Intervision* - an international system of television programme exchange, has been of great importance. At present, members of *Intervision* are television organizations of Czechoslovakia, the GDR, Poland, Hungary and the USSR. The formation of *Intervision* has helped it to considerably extend and enrich television programmes of all its members. The programmes exchanged through *Intervision* included direct relays of sports events, cultural performances, operas, ballets, concerts, entertaining programmes, newscasts as well as broadcasts for children. The exchange of programmes in the framework of *Intervision* is not hindered by commercial interests and fully serves the exchange of cultural values among the peoples.

In the framework of the OIRT also a wide exchange of television films is being realised. The OIRT General Secretariat issues quarterly catalogues of television films offered for international exchange.

The OIRT does not strive for the exchange of television programmes and films among its members only, but tries to find contacts and realise cooperation also with other international and national radio and television organizations.

Exact information on the work of individual national radio and television organizations and international organizations working in the field of radio and television is of great importance in the development of international cooperation in the field of radio and television. In this respect the *WORLD RADIO TELEVISION HANDBOOK* brings much useful information and undoubtedly serves to better mutual understanding among radio and television organizations throughout the whole world. October 1961.

J. Hřebík,

General Secretary of the OIRT



Gian Franco Zaffrani,
Radiotelevisione Italiana

and the mind of countless

It would hardly be possible to conceive today's civilization throughout the whole world, without Broadcasting. Radio has been for some decades instrumental in forming new generations of men by bringing to them the voices, the messages, the sounds of distant Nations and Countries.

Today television is adding to the immediacy of Radio, the completeness of the living picture. A new form of art has begun to influence with its aesthetic standards the soul and the mind of countless millions. For Radio and Televi-

(Continued page 8)

DEUTSCHE WELLE

»Hier ist die Deutsche Welle«

»This is the Voice of Germany« – »Ici la Voix de l'Allemagne«

»Habla la Voz de Alemania« – »Esta é a Voz da Alemanha«

Two different programmes are beamed to:

JAPAN . FAR EAST . MIDDLE EAST . NEAR EAST . AFRICA
WEST AFRICA . SOUTH AMERICA . CENTRAL AMERICA
NORTH AMERICA EAST and NORTH AMERICA WEST

GERMAN LANGUAGE COURSES

NEWS IN 5 LANGUAGES

ARABIC SERVICE

Programme suggestions and reception reports are very much welcomed.
letters should be addressed to

DEUTSCHE WELLE – KÖLN

Funkhaus, Wallrafplatz, Germany

Postfach 344

Detailed reports are answered by QSL card

Please refer to GERMANY for details

sion are demanding that the spoken word be adapted, together with the living image, to the greatest of all means of mass communications.

Man speaks unto man, Nations speak unto Nations and the feeling and problems of the individual become known to his fellow travellers on this planet once so large, now so small.

"World Radio TV Handbook" is indeed a priceless aid in helping men whose mission it is to foster better relations through Radio. No matter where we want to get or whom we wish to contact, "World Radio TV Handbook" seems to have the correct answer ready everytime.

I wish to congratulate its Author-Editor and Publisher for this very excellent piece of work.

Gian Franco Zaffrani
General Secretary
Radiotelevisione Italiana

★



Sheikh Abdulla Balkhair,
Saudi Arabia Broadcasting.

Saudi Arabia is entering the international field of broadcasting sometime this year. Through the valuable guide of the *World Radio Television Handbook* we shall introduce ourselves to the listeners of the world and giving them a true picture of our country and its progress today in this ever changing world.

Arab culture will be brought to listeners in all parts of the world through translations of famous Arab literature and poems and presentation of local music.

Under the guidance of His Majesty King Saud Bin Abdul Aziz Al Saud, the Saudi Arabian Broadcasting, Press and Information Services are expanding considerably. The construction of the new Broadcasting buildings is progressing satisfactorily and the training of the new technical staff is under way.

It is through understanding of a country's history, literature and music that we get to know each other and create closer relations between the nations of the world towards peaceful co-existence, progress and advancement.

The Voice of Saudi Arabia will have also a special message to the Islamic countries of the world. The Voice of Mecca will bring to the Islamic people of the world its historical and holy call.

Today more than ever the services of the *World Radio TV Handbook* have become a necessity in introducing ourselves to the International World of Broadcasting. On its 16th anniversary we heartily wish it a continuous success in its peaceful mission among the Broadcasting Stations of the World.

Sheikh Abdulla Balkhair
Supervisor General of Broadcasting,
Press and Publication.

BROADCASTING AND TELEVISION ORGANIZATIONS



O. Rydbeck,
Director General, President of
the EBU

EUROPEAN BROADCASTING UNION (E.B.U.) UNION EUROPEENNE DE RADIODIFFUSION (U.E.R.) EUROVISION

Seat and Administrative Office: 1, rue de Varembe, Genève.

Technical Centre: 32, av. Albert Lancaster, Bruxelles.

Monitoring Centre: Jurbise (Belgium).

International Coordination Centre for TV Programme exchanges (Eurovision): Palais de Justice, Bruxelles.

Administrative Council. President: O. Rydbeck, Director-General, Swedish Broadcasting Corporation.

Vice-Presidents: R. Janot, Director-General, Radiodiffusion-Télévision Française; M. Rodinò, Director-General, RAI-Radiotelevisione Italiana.

Administrators: Representatives of the broadcasting organizations in: Austria, Belgium, France, Germany (Fed. Rep.), Italy, Norway, Spain, Sweden, Switzerland, United Kingdom and Yugoslavia.

Director of the Administrative Office and Secretary General: Ch. Gillieron. - Director of the Technical Centre: Georges Hansen.

Active Members: The broadcasting organizations of: Austria, Belgium, Denmark, Finland, France, Germany (Fed. Rep.), Greece, Iceland, Ireland, Israel, Italy, Lebanon, Luxembourg, Monaco, Netherlands, Norway, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom (British Broadcasting Corporation) ITA and Independent Television Companies Association Ltd.), Vatican City, Yugoslavia.

Associate Members: The broadcasting organizations of: Australia (ABC), Burma, Canada (CBC), Ceylon, Congo (Leopoldville), Ghana, Haiti, Japan, Morocco, New Zealand, Rep. of South Africa, United States (ABC, CBS, NAEB, NBC, NETRC and BFA, US information Agency).

Publications: E. B. U. Review - every month in English and French, published in two separate parts: A (Technical) and B (General and Legal) - Long and Medium wave reports (European Area) - Short wave reports.



Jon Pas, Chairman,
President of the OIRT

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION - OIRT

Addr.: 15, Liebknechtova, Prague 5, Czechoslovakia. Cable: Interadif, Praha.

Nature: International organization dealing with practical and theoretical questions connected with broadcasting and television prg's and technique and cooperation between broadcasting and television organizations.

Governing Body: General Assembly consisting of one representative for each active member.

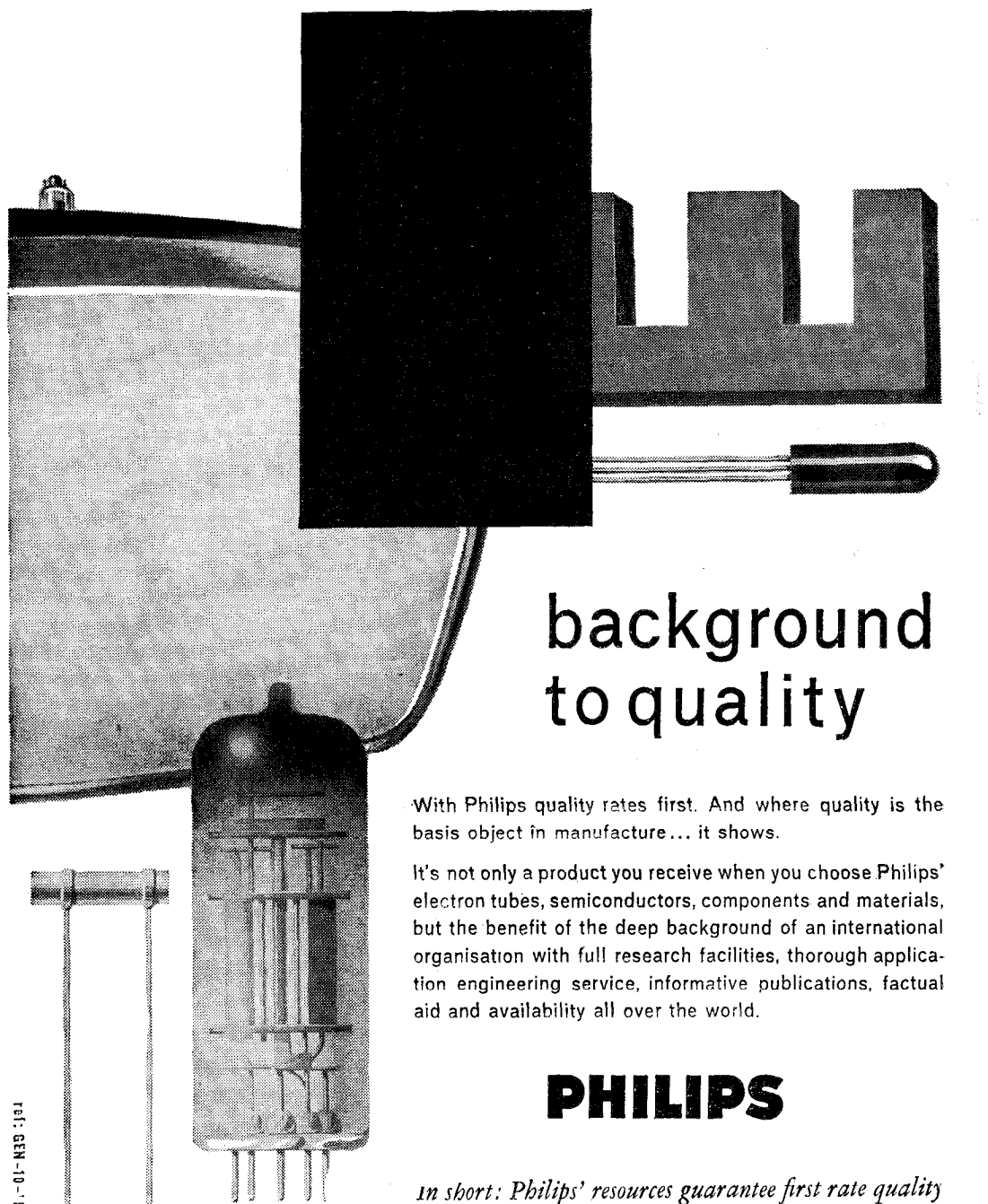
Administrative Council: Consisting of 7 to 13 members, Chairman for 1961-1963: Jon Pas, Chairman of the Rumanian Broadcasting and Television.

Representatives of the Radio and Television Organizations of the DPR of Vietnam and the Ukrainian SSR.

Members: Representatives of the Radio and Television Organisations of the German Democratic Republic, Chinese P.R., Republic of Cuba, Polish P.R., Rumanian P.R., Czechoslovak S.R., Ukrainian S.S.R., U.S.S.R., and D.P.R. of Vietnam.

MEMBERS: Radio and Television Organizations of: The PR of Albania, Byelorussian SSR, PR of Bulgaria, Chinese PR, Rep. of Cuba, Czechoslovak Republic, United Arab Republic/Egypt, Estonian SSR, Finland, German Democratic Republic, Hungarian PR, Iraq, Korean People's Democratic Republic, Latvian SSR, Lithuanian SSR, Rep. Mali, Moldavian SSR, PR of Mongolia, PR of Poland, Rumanian PR, Ukrainian SSR, Union of Soviet Socialist Republics, PDR of Vietnam.

(Continued page 10)



background to quality

With Philips quality rates first. And where quality is the basis object in manufacture... it shows.

It's not only a product you receive when you choose Philips' electron tubes, semiconductors, components and materials, but the benefit of the deep background of an international organisation with full research facilities, thorough application engineering service, informative publications, factual aid and availability all over the world.

PHILIPS

In short: Philips' resources guarantee first rate quality

Broadcasting and Television Organizations

(Continued from page 8).

Facilities: Administrative Office and Technical Centre, Prague, Czechoslovakia.

Specialized Commissions: Technical Commission: Chairman A. Kozlowski, Polish PR.; Programme Commission: Chairman L. Gacz, Hungarian PR.; Television Commission: A. Hradecký, Czechoslovak SR.

Publications: Review of the International Radio and Television Organization (OIRT) "Radio & Television" in English, French, Russian, Chinese and German, issued every two months. Monthly OIRT Information, and quarterly Catalogues of prgr's suitable for exchange: a) radio, b) television.

Meetings: General Assembly every two years, Administrative Council every one year.

Relations with all important organizations active in the field of radio and television.



Tor Gjesdal, Director of the Dept. of Mass Communication

guage production), Gerald Wade

MASS COMMUNICATION TECHNIQUES DIVISION

Chief: Pierre Navaux.

Head of Radio and Television Section: Henry R. Cassirer.

UNESCO

(United Nations Educational, Scientific and Cultural Organization).

ADDR.: Place Fontenoy - Paris 7 - France.

L.P.: Dir.-Gen. Vittorio Veronese.

DEPARTMENT OF MASS COMMUNICATIONS:

Dir. Tor Gjesdal.

RADIO AND VISUAL INFORMATION DIVISION:

Chief: Jean A. Keim.

Programme Specialists: Jean Bhownagary (Asia), Emile Dana (French language production), José Garza y de Garate (Spanish language production), Rex Keating (English language production) (North America and Canada).

ASOCIACION

INTERAMERICANA DE RADIODIFUSION (AIR)

President: The Uruguayan Broadcaster Sr. Raul Fontaina, Mercedes 973, Montevideo, Uruguay. **Vice Pres's:** Lic. J. L. Fernandez (Avda Chapultepec 18, Mexico D.F.); F. Eleta (Apdo 1795, Panama). **Secr.:** R. Trabanino (5 Calle Poniente 9, San Salvador).

Central Office, Dir.-Gen.: Manuel Caballero Ferreira, Av. Uruguay 1031, Esc. 2 Montevideo. Cable: IAAB, Montevideo, Uruguay.

AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 4000 broadcasting and 400 television stations. Its purpose is to preserve free and stable broadcasting, promote cooperation between broadcasting corporations and the public authorities, to raise the cultural level of the peoples, to work for the preservation of freedom of utterance and instruction and a closer feeling of association between the private broadcasting corporations on the American Continent. AIR has agreed with Sociedad Interamericana de Prensa about the revision of the so-called Panama Doctrine for the purpose of increasing the practical effectiveness of that pact and of making it a permanent means of defence for the preservation of democratic principle.

AIR is recognized by the United Nations and collaborates with UNESCO, with the International Union of Telecommunications, with the organizations of the American States.

AIR has subscribed to the "Panama Doctrine" in which the American Radio and Press declare themselves united against any attack on individual liberty and any restriction of the freedom of utterance. During the current year the institution has had intensive activity in defense of freedom of information in connection with events occurring in several countries.



Raul Fontaina, President

INTERNATIONAL TELECOMMUNICATION UNION



*Gerald C. Gross
Secretary General*

Addr.: Place des Nations, Geneva, Switzerland. Te.: 34.70.00.

Secretary-General: Gerald C. Gross. **International Frequency Registration Board (IFRB):** Chairman: N. Krasnoselski (USSR).

International Tel. & Tel. Consultative Committee (CCITT): Dir. J. Rouvière.

International Radio Consultative Committee (CCIR): Dir.: Dr. E. Metzler. **Study Group X (Broadcasting):** Chairman: A. P. Walker, USA - Study Group XI (Television): Chairman: E. Esping, Sweden - Study Group XII (Tropical Broadcast.): Chairman: A. C. Ramchamrani, India.

Administrative Council: Argentina, Australia, Brazil, Canada, China, Colombia, Czechoslovakia, Ethiopia, France, Germany (Fed. Rep.

of), India, Iran, Italy, Japan, Mexico, Morocco, Philippines, Spain, Switzerland, Tunisia, United Arab Rep., United Kingdom, United States, USSR, Yugoslavia.

Membership (108 Members, 5 Associate Members): Afghanistan, Albania, Argentina, Australia, Austria, Belgium, Bielorussian (Soviet) Republic, Bolivia, Brazil, Bulgaria, Burma, Cambodia, Cameroon, Canada, Central African Republic, Ceylon, Chad, Chile, China, Colombia, Congo (Republic of), Brazzaville, Costa Rica, Cuba, Cyprus (Republic of), Czechoslovakia, Dahomey, Denmark, Dominican Rep., Ecuador, El Salvador, Ethiopia, Finland, France, Gabon, Germany, (Federal Rep. of), Ghana, Greece, Guatemala, Guinea, Haiti, Honduras, Hungary, Iceland, India, Indonesia, Iran, Iraq, Ireland, Israel, Italy, Ivory Coast, Japan, Jordan, Korea, Kuwait, Laos, Lebanon, Liberia, Libya, Luxembourg, Malagasy Republic, Malaya, Rep. Mali, Mexico, Monaco, Morocco, Nepal, Netherlands (Kingdom of), New Zealand, Nicaragua, Niger, Nigeria (Fed. of), Norway, Overseas States of the French community and French Overseas Territories, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Portuguese Overseas provinces, Rhodesia & Nyasaland, Roumania, Saudi Arabia, Senegal, Spain, Spanish Provinces in Africa, Sudan, Sweden, Switzerland, Thailand, Tunisia, Turkey, Ukraine (Soviet), Republic of South Africa & Territory (SW Africa), USSR, United Arab Republic, United Kingdom (Great Britain & No. Ireland), United Kingdom (Overseas Territories), United States, US Territories, Uruguay, Vatican, Venezuela, Viet-Nam, Yemen, Yugoslavia.

Associate Members: Bermuda-British Caribbean Group, British East Africa, British West Africa, Ruanda-Urundi (Territory of), Singapore-British Borneo Group.

ASIAN BROADCASTING UNION

The fourth Asian Broadcasters' Conference is to be held in Kuala Lumpur, Malaya, in November 1962; it is therefore impossible to publish any news about the establishment of an Asian Broadcaster's Union.



*Racine Kane,
Directeur de la Radiodiffusion
Nationale du Mali.*

AFRICAN RADIO AND TELEVISION UNION

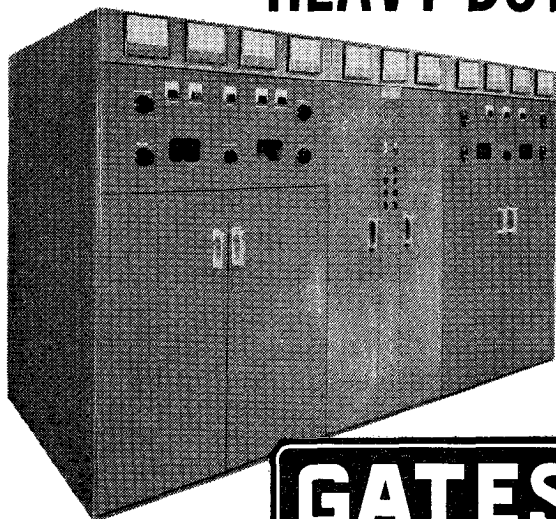
At the invitation of the Director-General of Radio Morocco, representatives of six African States assembled at Rabat in May 1960 when it was agreed to form an African Radio and Television Union. The agreement was contained in two resolutions which in the main stipulate that this union calls for a strengthening of the bonds of brotherhood and amity existing between all peoples of the continent of Africa. The African Radio Union, it says in these resolutions, has as its aim the creation and consolidation of exchange and cooperation within the sphere of radio and television, in order to attend to the interests of African broadcasting and to coordinate participation in international conferences.

At this first conference it was decided to appoint three commissions: 1) an administrative and juridical commission with head office at Tunis, 2) a technical commission, with head office at Cairo, and 3) one

(Continued page 12)

For all BROADCASTING and COMMUNICATIONS NEEDS.

NOW! A NEW 50 KW TRANSMITTER 'SPECIALLY ENGINEERED FOR HEAVY-DUTY PROGRAMMING!



GATES

... provides thousands of hours
of trouble-free service!

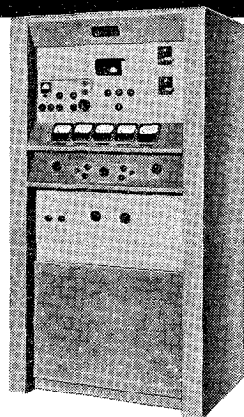
This revolutionary, new transmitter—especially designed to withstand the extremes of all world climates—offers you the maximum in high fidelity and trouble-free operation on the 540 KC to 1600 KC Band. It represents an accumulation of nearly 40 years of engineering experience, offering many unique features, including the use of dry rectifiers throughout, compact size, external and internal air cooling and the use of only 15 tubes of six types. Other GATES' AM Broadcast Transmitters include: 250 watt, 1 KW, 5 KW, 10 KW, 20 KW, 100 KW.

HIGH POWER TRANSMITTERS

ABOUT 75 COUNTRIES OF THE WORLD USE GATES BROADCAST EQUIPMENT.

The long list of users include major governments, military, broadcasting stations, international radio communications and press services. Whether it be short wave, AM, FM, TV, transmitters or complete studio equipment, the GATES name is synonymous with the highest standard of quality... and equally important GATES equipment costs less to install and operate.

A complete line of Short Wave and Medium Wave Transmitters including: 1 KW, 5 KW, 10 KW, 20 KW, 50 KW, 100 KW. Every technical advance known has been incorporated in the design of these fine transmitters. Compact size, rapid frequency change, interchangeability of PA and modulator tubes, longer tube life, low power consumption.



GATES RADIO COMPANY

Exclusive International Representative

ROCKE INTERNATIONAL CORPORATION

13 East 40th Street, New York 16, New York, U. S. A. Cables: ARLAB



The CBC International Service broadcasts shortwave programs in the following languages:

ENGLISH • FRENCH • GERMAN
SPANISH • PORTUGUESE • CZECH
SLOVAK • RUSSIAN • UKRAINIAN
POLISH • HUNGARIAN

Music and spoken-word Transcriptions are sent to broadcasting organizations upon request. Write for free Program Schedule.

RADIO-CANADA

**CANADIAN
BROADCASTING
CORPORATION**

P.O. BOX 6000 • MONTREAL, CANADA

Broadcasting and Television Organizations

(Continued from page 10).

to deal with the exchange of programmes, with head office at Accra. The administrative and juridical commission met in Tunis in October 1960, the technical commission at Cairo in April 1961. The Programme exchange commission will meet at Accra on 18-23 September 1961. The chairmanship and coordination of the commissions is entrusted to Mr. Abdoulaye Touré, Ministre Résident de la République de Guinée au Mali, Directeur de la Radiodiffusion Guinéenne.

BROADCASTING FOUNDATION OF AMERICA



Basil Thornton,
President.

The Broadcasting Foundation of America is organized as an educational corporation and is also the international division of the National Educational Television and Radio Center. Its object is to foment the exchange of Radio and Television programs of a cultural and informative nature between the main stream of Broadcasting in the United States and the broadcasting stations and organisations of other countries. American radio station membership of BFA consists both of commercial and educational stations. BFA is an associate member of the EBU and is the official American organisation for selection and presenting entries to the Prix Italia and the Grand Prix Eurovision (Cannes).

Chairman: Dr. Samuel B. Gould, Chancellor University of California, Santa Barbara - Pres.: John White (also Pres. NETRC) - Vice-Pres.:

Programs and Sec.: Basil Thornton - Address: 10, Columbus Circle, N.Y. 19, N.Y. - USA. Enquiries to Secretary.

UNIVERSITÉ RADIOPHONIQUE INTERNATIONAL (U.R.I.)

(Founded by Radiodiffusion Télévision Française).

ADDR.: 21 bis rue La Pérouse, Paris 16^e, France - L.P.: Pres.: Théo Fleischman. Adm. Dir. Gen. Radiodiffusion Nationale Belge, Gen. Sec.: A. Lanoux.

Member of the Permanent Committee: Radio: R. Dovaz (Switzer and), E. Gampe (Austria), R. Behal (Czechoslovakia) - Television: S. Pugliese (Italy), E. Beckmann (Germany), Niels-Erik Baehrendtz (Sweden) - Permanent Sec.: Head of Coordination Dept.: G. Druon - Cultural Adviser: L. Foucher, Scientific Adviser: P. Ostoya, Chief Intern. Sec.: O. Duchâteau.

37 countries have joined the work of U.R.I.

THE INTERNATIONAL FILM AND TELEVISION COUNCIL (I.F.T.C.)

Non-governmental organization, independent, non-profit-making, and open to representative international federations or associations whose work lies in the field of the film and television.

The Council seeks to further the work of its members by arranging meetings and consultation between them, and acting as a link for the exchange of information and for co-operation in many ways. It thus provides, for the first time, machinery for international action in both film and television.

Pres.: John Maddison - Vice-Pres.: Charles Delac and Jean d'Arcy - Hon. Treasurer: Jean Jay - Hon. Sec. and Dir. of Rome Office: Mario Verdone - Administrative Sec.: Sylvia Antebi.

PORTABLES OF REAL QUALITY

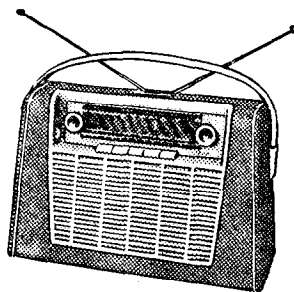
KURER TRANSI FM

An all-transistor AM-FM portable

4 wavebands:

medium wave	580 - 182 m
short wave 1	131 - 37,5 m
short wave 2	34,5 - 10,5 m
FM	87,5 - 108,5 m

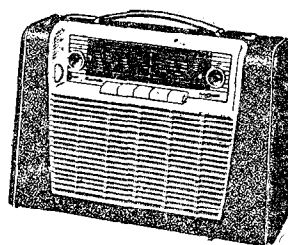
Telescopic aerial for the FM-band, and built-in frame antennas for the AM-bands. Remarkable performance. HiFi reception. 9 transistors, 5 crystal diodes. Outlet for car antenna for the FM-band.



KURER TRANSI

A special export version with 3 shortwaves and AM

4 wave bands	Push-button system
10 - 600 metres	Non-breakable dial
Built-in aerial	Smart and handy
Battery operated,	Supreme tone
7 transistors, 2 diodes	Always ready for use



RADIO**NETTE**

OSLO-NORWAY

Radio's first name in Norway

RELIGIOUS BROADCASTING ORGANIZATIONS

AND SOCIETIES

EVANGELICAL

EUROPE:

EKOR, Interkerkelijk Overleg in Radio-aangelegenheden, Hilversum, Borneolaan 27, Holland.

NCRV, Nederlandsche Christelijke Radio Vereniging, Schuttersweg 8, Hilversum, Holland.

VPPO, Vrijzinnig Protestantse Radio-Omroep, Hilversum, Holland. Radio Reveil, Via Tesserete 51, Lugano, Switzerland.

Nordic Radio Evangelistic Association, Grensen 19, Oslo, Norway. In connection with Norwegian Lutheran Mission. Cooperating with Trans World Radio, Monaco. Broadcasting over R. Monte Carlo. (See Norway).

IBRA Radio Mission, Box 821, Stockholm 11, Sweden. Member-organization: IBRA Radio Federation is an international federation of listeners. (See Sweden).

AFRICA:

The Federation of Churches in Yaounde, Cameroon. A RAVEMCCO related agency.

AMERICA:

National Religious Broadcasters, an association of Protestant national and international broadcasters on radio and television. President: Dr. E. R. Bertermann, 210 North Broadway, Saint Louis 2, Missouri. **Difusiones Inter-Americanas (DIA)**, an evangelical organization, established in 1959, to produce, process, distribute and promote radio and television programs, recordings and audio visual aids for the evangelizing of Latin America. Membership actually is over 80 members. - Addr.: Apt. 2470, San José, Costa Rica.

The World Committee for Christian Broadcasting (WCCB): General Sec.'s: The Rev. W. Burton Martin, Suite 524, 156 Fifth Av., New York 10, N.Y., USA - Pastor H. W. von Meyenn, Church Radio Center, Evangelisches Pressehaus, Bethel-Bielefeld, Germany.

Latin America Mission, 285 Orchard Terrace, Bogota, N.J. and Apto. 1307, San José, Costa Rica. - Dr. R. Kenneth Strachan. Radio Dir. Paul Pretz. Publ.: "Radio Headlines" c/o Latin America Mission.

West Indies Mission, R.D.1, Homer City, Penn. USA. - Dir. Gen. Rev. E. V. Thompson. Superintendent of Haiti Field L. A. Markwood. Has 190 missionaries laboring in Central and So. American countries. Pub.: "The Whiteness Harvest".

Broadcasting and Film Commission NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 27, N.Y. Exec. Dir.: S. F. Mack.

RAVEMCCO, New York, USA. Radio, Visual Education and Mass Communication Committee of the Division of Foreign Missions of the National Council of the Churches of Christ in the USA, 475 Riverside Drive, New York 27, N.Y., Sec.: Rev. B. M. Luben.

Far East Broadcasting Co., Inc., ("Christianity to the World by Radio"), P. O. Box # 1, Whittier, California. Pres.: Robert H. Bowman. Private Comp. with no member organizations. Publ.: "The Broadcaster", monthly.

The Lutheran Hour "Bringing Christ to Nations", Saint Louis, USA. Sponsored by The Lutheran Laymen's League (affiliated with the Lutheran Church-Missouri Synod), 2185 Hampton Avenue, St. Louis 10, Missouri, USA. Exec. Dir. P. Friedrich.

The Oriental Missionary Society and the Inter-American Missionary Society, 850 N. Hobart Blvd. Los Angeles 29 California, USA. President: Dr. Eugene Erny - Dir. Haiti Field incl. allied missionary activities: E. Turnidge, Box 1, Cap Haitien, Haiti.

World Radio Missionary Fellowship: Talcottville, Conn., USA. Pres.: Dr. Clarence W. Jones. Mgr.: J. V. Gosney. Operates La Voz de los Andes HCJB Ecuador; No. American Headquarters P.O. Box 691 Miami 47, Florida.

World Conference on Missionary Radio was recently incorporated as a service agency to all Missionary Radio Stations. Addr.: Talcottville, Conn., USA.

Lutheran Television Productions, a Board of the Lutheran Church-Missouri Synod, producing and distributing "This is the Life" and "The Fisher Family". Exec. Sec.: Dr. E. R. Bertermann. Prgr. Dir.: Dr. H. W. Gockel, 210 N. Broadway, Saint Louis 2, Missouri, USA. Canadian Baptist Foreign Mission Board, 190 St. George Str., Toronto 5, Ontario, Canada. General Secretary: Dr. H. S. Hilley. Works with the National Church in Bolivia, Angola, India.

ASIA AND PACIFIC:

RAVEMCCO related agencies, which prepare prgr's for broadcast: Burma Christian Council, 82 Str., Mandalay, Burma. The Churches of Christ in Thailand, 14 Pramuang Rd., Bangkok, Thailand. The Near East Christian Council. Mr. H. Fischer, Chairman, Radio-Audio-Visual Committee, Box 235, Beirut, Lebanon.

Christian Broadcasting Association, 420 Lyons Rd., Five Dock, Sydney, N.S.W., Australia. Man. Dir.: Rev. V. Turner. Radio prgr. production on behalf of Protestant Churches.

CATHOLIC

Pontifical Commission for Motion-Picture, Radio and Television: Pres.: H. Excellency Archbishop Martin O'Connor. Sec.: Most rev. Albino Galletto. - Addr.: Palazzo San Carlo, Citta del Vaticano.

Association Catholique Internationale pour la Radiodiffusion et la Television:

Gen. Secretariat: Av. de la Gare 6, Fribourg, Switzerland. - Gen. Sec.: Dr. J. Schneuwly.

Administrative Council consists of 12 members. Pres.: Mag. Dr. J. B. Kors, OP, Utrecht, Holland. - Member of "Organisations Internationales Catholiques" (OIC) and cooperate with "l'Office Catholique internationale du Cinema" (OCIC) and "Bureau Internationale Catholique de l'Enfance" (BICE).

Members of the org.: Algeria, Argentina, Australia, Austria, Belgium, Bolivia, Brazil, Canada, Ceylon, Chile, Colombia, Rep. of Congo, Costa Rica, Cuba, Curacao, Denmark, Ecuador, Egypt, El Salvador, France, Germany, Haiti, Holland, Indonesia, Iraq, Ireland, Italy, Japan, Luxembourg, Madagascar, Mali, Monaco, Morocco, Niger, Norway, Panama, Paraguay, Peru, Philippines, Portugal, Puerto Rico, Rhodesia No., San Domingo, Spain, Sweden, Switzerland, Trinidad, Tunisia, So. Africa, Uruguay, Vatican State, Venezuela.

Publications: "Catalogue du Disque de Musique religieuse". Television: "Code et Commentaire a l'usage des Educateurs. Revue UNDA", quarterly, in French, English, Spanish. Monthly bulletin: "UNDA Nouvelles".

CHURCH OWNED RADIO-STATIONS

EVANGELICAL

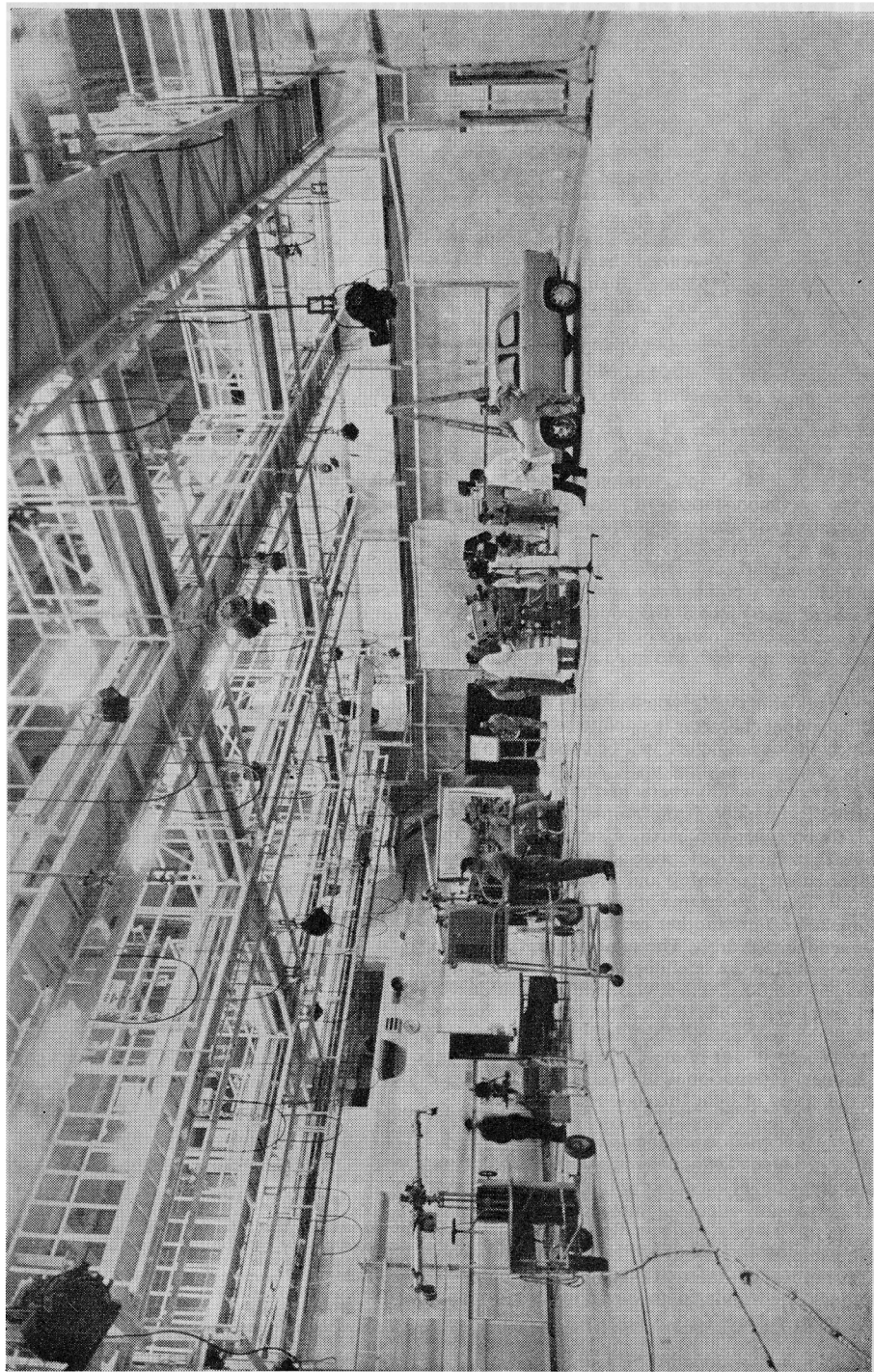
Monaco: Trans World Radio, Intern. Evangelism Inc. - Liberia, St. ELWA, Sudan Interior Mission. - Ethiopia: Voice of the Gospel: Lutheran World Federation Christian-Near-East-Council. - Philippines: DZAS, DZFE, DZB2, DZH6, DZH7, DZH8, DZH9, DZF2, DZF3, DZ18, DZ19, DZ16, Far East Broadc. Co. Voice of Christian Brotherhood (DYSR), RAVEMCCO. - Korea: The Christian Broadc. System (HLKY, HLKT, HLKP, HLCL, HLCLM), Korean National Christian Council Radio Committee. RAVEMCCO-agency. - St. HLKX, The Evangelical Alliance Mission. - Okinawa: KSAB, KSDX, KSBU, Far East Broadc. Comp. Inc. - Hawaii: R. St. KAIM, Christian Broadc. Association. - Australia: 5KA Broadc. Co., Methodist Church of Australia. Amalgamated Wireless, New South Wales Council of Churches. - Taiwan: The Voice of Righteousness, Cheng Sheng Broadc. Corp. - Ecuador: Voice of the Andes HCJB and HCJB-TV, World Radio Missionary Fellowship Inc. - Costa Rica: Faro del Caribe (TIFC), Latin America Mission. - Guatemala: R. Cultura TGNA, Central American Mission. - Haiti: La Voix Evangelique 4VEH, Oriental Missionary Society. R. Lumiere, West Indies Mission. - Panama: La Voz del Istmo (HOXO), World Radio Missionary Fellowship. - Nicaragua: Ondas de Luz YNOL, Asociacion Cultural Nicaraguense - Aruba R. Victoria PIA6, Evangelical Alliance Mission. (Team) - Puerto Rico: St. WIVV, Calvary Baptist Mission. - R. Honduras: La Voz Evangelica de Honduras HRVC, Conservative Baptist Home Mission Society. - Bolivia: La Cruz del Sur CP27/39, Canadian Baptist Foreign Mission Board. - Alaska: The Voice of Arctic KICY, Arctic Broadc. Org., a branch of Evangelical Covenant Church of America - USA: KGEI, San Francisco.

PLANNED STATIONS: EPI - Emetteur Protestant International, Post Office 392, Berne 2, Switzerland. TX: 1 sw. st. of 100 kW planned. L: Prgr's in 32 languages planned. - Org.: Schweizerischer Kirchenbund and the EPI Association.

CATHOLIC

Holland: St. KRO, Katholieke Radio-Omroep. - Italy: Vatican R., Vatican City. - Portugal: R. Renascenca. - Leopoldville: R. Leo, Societas Jesus. - Katanga: R. College, College St. Francois de Sales. - Mozambique: R. Pax, Franciscan Fathers of Beira. - Angola: R. Ecclesia. - Philippines: Voice of the Catholic, University of Santo Tomas. - Australia: St. 2 SM. - Colombia: R. Sutatenza, Accion Cultural Popular. R. Reina. - Bolivia: R. Loyola. R. Fides, Colegio S. Calixto. - Ecuador: R. Catolica. R. Cultura Religiosa. R. Paz y Bien. La Voz del Campesino. - Costa Rica: R. Fides. - Dominican Rep.: R. Diocesis de la Vega. - Brazil: R. Piranhas Ltda. R. Pajou de Educacao Popular Ltda. R. Planalto S/A. R. Educadora Palmares de Alagoas. R. Aparecida. Emissora Rio S. Francisco. R. Cultura de Sergipe. R. Difusora Bom Jesus de Cuiaba. Por um Mundo Melhor. Emissora de Educacao Rural. R. Aparecida Ltda. R. 9 de Julho Ltda. R. Braganca Ltda. R. Colmeia Ltda. R. Cambiju. R. Cultural. R. Difusora d. Paranaaguá. R. Soc. Cruz de Malta Ltda. R. Itagiba. Soc. R. Difusora Urussanga Ltda. Soc. R. Tubal Ltda. R. Sarandienense de Sarandi. R. Aurora Ltda. R. Cacique Ltda. R. Cristal de Soledade. R. Sociedade de Sobradinho Ltda. R. Difusora Ltda. R. Difusora Veranense de Marau. R. Aratiba Ltda. R. Difusora Veranense Ltda. R. Difusora Garibaldi. R. Conquistadora and R. Porto Lucena. R. em Planejamento. Centro Radiofonico Franciscano. R. Capixaba. R. Difusora de Goiania.

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WORLD-TELEVISION AND THE UNITED NATIONS

By David Sarnoff, Chairman of the Board, Radio Corporation of America



Brigadier General David Sarnoff, Chairman of the Board of Directors and Chief Executive Officer, Radio Corporation of America.

Television has become, in a few years, a vital part of world-wide communication and is now on the threshold of its second and most decisive epoch. The first epoch spanned its rise as a national service, beginning in 1947. Since then, 75 countries have installed television, with some systems state-controlled, some privately owned, some a fusion of both. Today there are almost one hundred million television receivers in world-wide use.

Ten years hence—if vigorous foreign growth continues

—there will be television stations in virtually every nation on earth, telecasting to some two hundred million receivers. An audience of a billion people might then be watching the same program at the same time, with simultaneous translation techniques making it understandable to all. In a world where nearly half of the population is illiterate or semi-literate, no other means of mass communication could equal television's reach and impact upon the human mind.

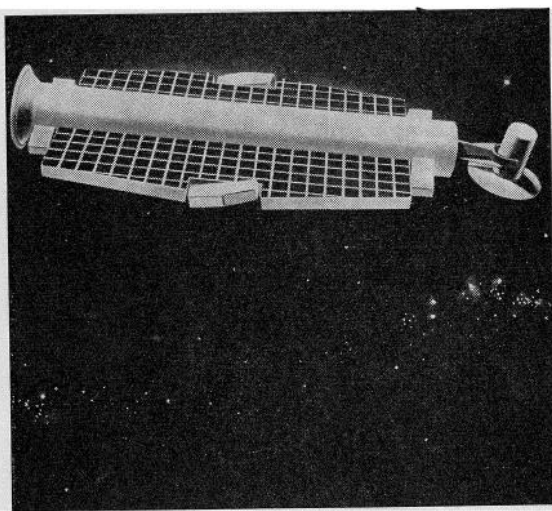
The instrument which will give television's second epoch this distinctive global character is satellite relay television, through which the same picture will be capable of reception on all continents simultaneously. An image captured by a television camera anywhere in the world can be made available technically, at the moment of capture, on home receivers anywhere on earth. Already much of the world has listened in on radio messages from satellites—fed into them before launching and broadcast after they achieved orbit. Radio programs originating on one coast have been picked up on another coast—"bounced back" by an inflated sphere in orbit. The same concept will soon apply to television, but the satellites serving as relay points will not be inert balloons. They will be filled with instruments that amplify the electronic impulses they receive from earth, and then transmit them back with the clarity of TV pictures seen in our homes. Within five years, and probably sooner, international television signals will be moving at the speed of light through outer space.

If global television offers—as those of us who have studied it believe it does—a bright new promise for moving the world closer to civilized harmony, then presidents, prime ministers, leaders of every political, religious and intellectual persuasion should commence, with urgency, an evaluation of its potentialities for advancing world peace. Such evaluations should not be based on the conventional concepts of international programming. It would, of course, be wonderful to view a live performance of *La Scala* opera in New York, Capetown or Anchorage; or watch, in a Detroit home, a *Mozart Festival* from Salzburg—in glorious color. But it is in the interesting political and international sphere in which we must find programs which will anchor, at the earliest possible time, the

concept of free international usage. I have in mind, as one example, the employment of global satellite television as a new channel of communication among Heads of State. This would make it possible to conduct summit conferences in which the principals would confer face-to-face without leaving their capitals. They might discuss the issues of great moment by employing television in the same way telephone conference calls are handled domestically today. We can visualize each national leader sitting in his television-equipped office—in London, Paris, Moscow, Washington, or elsewhere. A television camera trained on each man will relay his image to all the others for viewing on a split-screen or on a multiple screen. In addition to conversing back and forth, each will be able to display charts or diagrams, or even films, relating to the questions on the prearranged agenda, and he will see those which any of his confreres wish to project.

The procedural advantages are obvious. The time-consuming question of who goes where and for how long will be resolved. The difficult problems arising from travel, security and protocol arrangements will no longer be reasons to procrastinate, if the need for such meetings is genuine. Such a satellite system would be useful not only for full-scale meetings, but also for face-to-face discussions between Heads of State. When closed sessions are desired,

(continued page 18)



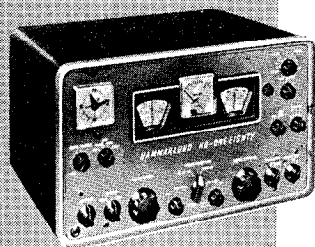
All-Purpose Satellite Communications System Proposed by RCA

A communications satellite of a design proposed by RCA orbits 22,300 miles about the earth in this artist's conception, performing a key role as a relay station in a single, all-purpose satellite system that would be available to all nations for world-wide telephone, radio, television, telegraph, and data services through two or three such space relays. The system, a new concept in global communications, has been proposed by RCA to the Federal Communications Commission as a service that could be achieved during the 1960's in a form that would provide communication channels for all international services through their own ground stations. Proposed satellite shown here is 13 feet long, has fins bearing solar cells to generate power from sunlight, and carries dish-shaped antenna directed constantly toward earth.

HAMMARLUND

COMMUNICATIONS EQUIPMENT

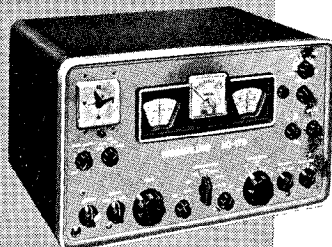
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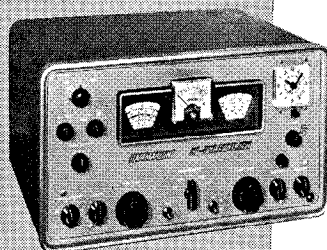
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World-Television and the United Nations *(continued from page 16)*

the television transmissions could be scrambled and decoded by special equipment at each capital, using the same techniques now employed in military and commercial communications. Where there was no need for secrecy, the conferences might be available for all to see and hear. Beyond summit conferences and diplomatic interchanges, there should be a *continuing* global television project of such compelling importance, that a television channel opened by summitry would not be sealed off during the months or years between conferences.

Over the years I have suggested to the United Nations that its membership ought to provide itself with facilities to broadcast its public proceedings and its pronouncements, with the aim of reaching people everywhere regardless of race or color. The techniques will soon be available to offer global television in the service of the world community. When a satellite communications system is functioning, a television channel should be made available for use by the United Nations. The U.N. should provide its own studio facilities and staff and be master of its own programming content. However, I suggest that its most useful programs would be its own deliberations—the Security Council at moments of urgent discussion on fateful questions. It would not always be a placid picture, for world political discussions are not always pleasant, but it will be life as it is mirrored in the only existing world forum, where ideas are exchanged and debated. As for the developing nations, if the United Nations is their best hope for establishing their own independence, then their understanding of its aims—seen

with the same picture in Africa as in America—must be the best hope of the U.N. for assisting them effectively.

The cost of the satellite project should be neither a deterrent, nor an excuse. Full development of the ultimate multi-channel global communications system would require several hundred millions of dollars, but the inclusion of a television facility would require only a fraction of this sum.

A U.N. global television service would serve the aim of advancing world peace in many ways. In the early stages of a crisis, global television might create an understanding of the issues involved, and thus minimize or even obviate the need for armed intervention.

I reiterate the importance of the time element in this proposal for global television, for seldom in life are lost opportunities regained. To the leaders of the U.N. I suggest that they begin now the consideration of plans for programming a satellite television channel—and publicly express their interest in doing so. If they are not ready when the system is ready, other programs will fill the void and an opportunity of incalculable prospect will be lost. Whether the trademark on the satellite is British, Russian or American, the information relayed will be faithful to what the camera projects.

The poet Archibald MacLeish did not know of satellite television when he said: "Our technology, wiser than we, has given us the unforeseen and unforeseeable means of world-wide understanding at the moment when world-wide understanding is the only possible means of lasting peace..."

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WORLD TELEVISION BROADCASTS

Plan for world tv broadcasts of the 1964 Tokyo olympics

The Tokyo Olympic Organizing Committee (OOC) decided on August 8, 1961 to entrust the Japan Broadcasting Corporation (NHK) with the task of negotiating agreements with overseas stations and conducting a survey on the requirements of overseas stations concerning the sound and television broadcasting of the 18th Olympic Games to be held in Tokyo from October 9 to October 25, 1964. Therefore, broadcasting organizations wishing to telecast the Tokyo Olympics are required to negotiate, either separately or collectively, with NHK for TV broadcasting rights. NHK, which shares the responsibility regarding the TV broadcasting of the Tokyo Olympics has drafted the following plan.

The Games will be held at four blocs of sites - the Main Stadium, the Komazawa Stadium, the Multi-purpose Gymnasium and other minor sites. NHK will establish a TV Center and will simultaneously cover all events daily for transmission to this Center.

Overseas stations which have a TV broadcasting agreement can receive these pictures to be recorded on VTR or Kinescope at the TV Center, and TV audio signals will be sent by wire, in the language desired by each station, to the TV Center via a Radio Center. These audio signals will be recorded simultaneously with the video signals. Pictures of events taking place at each of the Main Stadium, Komazawa Stadium and Multi-purpose Gymnasium will be simultaneously transmitted, through the Center, to the other two sites, so that announcers of foreign stations posted at these sites can make commentaries while watching the pictures. A guide commentary in English and French accompany these pictures.

In addition to the above, a plan to transmit in color, upon request only, the events held at the Main Stadium and swimming events is now being studied. The NTSC system will be used for these color TV broadcasts. Special broadcasting facilities such as film expressage equipment, which can transmit video signals over shortwaves and which was first used by NHK at the Rome Olympics, as well as slow motion reproduction equipment, will also be made available upon request. A 3-minute film summary of each of the daily events will be edited and provided for overseas stations.

Visiting foreign broadcasters should apply at the booking office, clarifying the desired events, method of recording the desired language on the day before the events take place. TV pictures will be transmitted on the Japan television standard system using 525 scanning lines and a field frequency of 60 c/s. The VTR equipment employed will be the Ampex 4-head system. Kinescope recording will be made on 16 mm films at 24 frames per second.

The plan outlined above has been drawn up on the basis of the present television relay system with deferred transmission, since global live transmission by means of artificial satellites has not been made possible at present. If live international transmission comes to realization, however, live relays from each site will be extended from the TV Center to TV stations in various parts of the world. A Radio Center will be established at the Main Stadium, where all audio signals from each site can be received, recorded, reproduced and edited. Sound broadcasting rights will be granted free of charge.

ICHIRO MATSUI

Director Tokyo Olympics Broadcasting Headquarters

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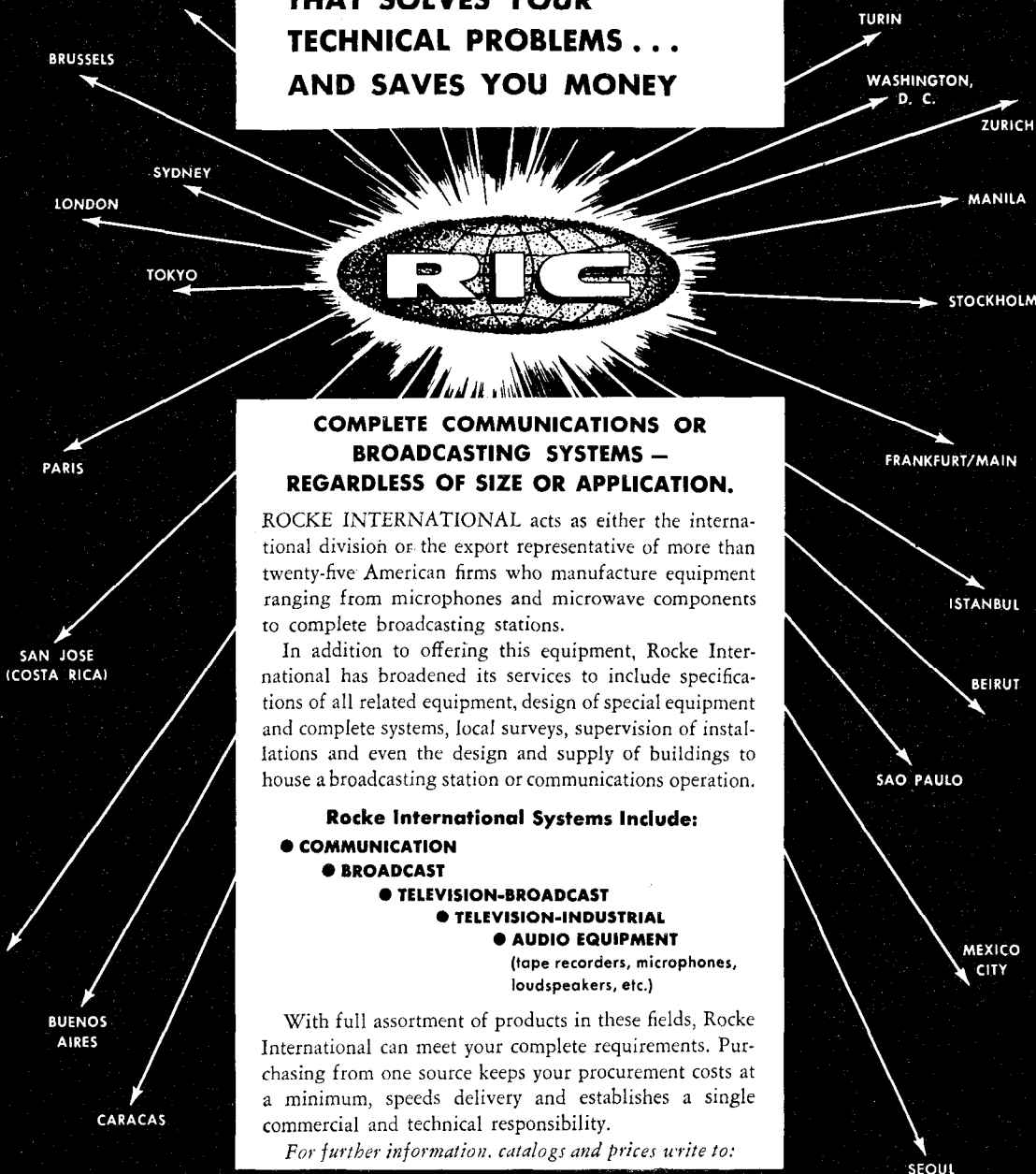
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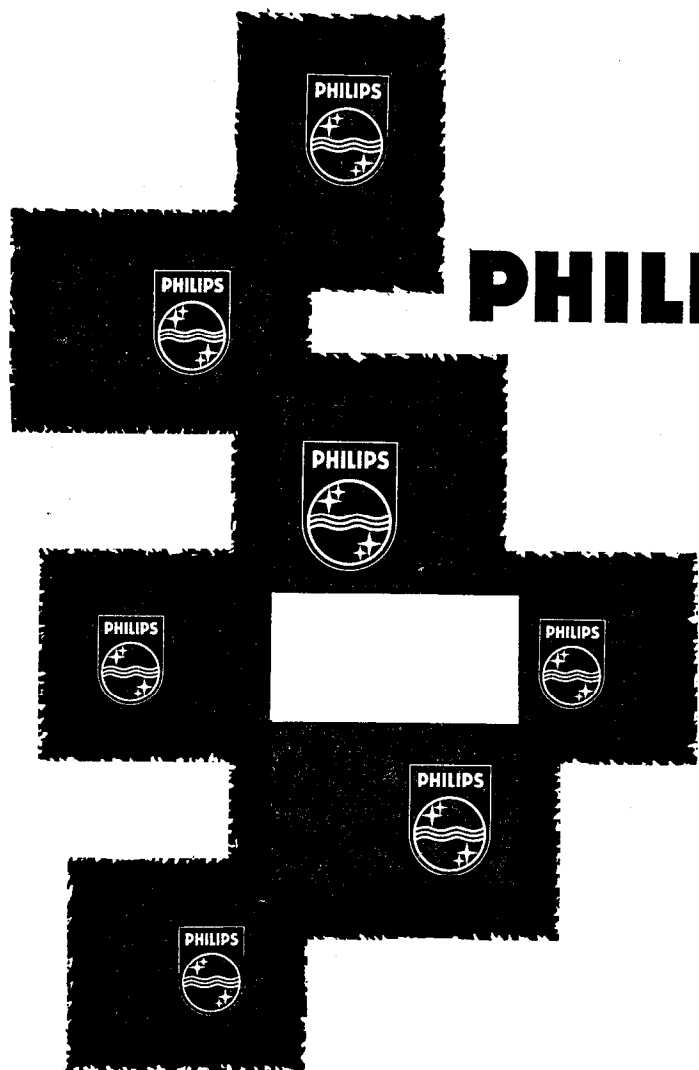
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G. Hansen,
Director of the E.B.U.
Technical Centre.

EUROVISION IN 1962

G. Hansen,
Director of the
E.B.U. Technical Centre.

The number of television programmes exchanged between the Members of the European Broadcasting Union has continued to increase in 1961. Fourteen transmissions on the average were coordinated by the E.B.U.

every week in 1961, compared with seven in 1959 and nine in 1960. The figure for 1961 is based on statistics for the first six months, the only available ones at the time of writing (15th September, 1961).

Eurovision is now quite familiar to the viewer of Western Europe and a few figures will serve to illustrate its present impact. Twenty-one television services situated in seventeen different countries are linked by Eurovision. The total length of the permanent television networks of these services is more than 40,000 km. The number of television broadcasting stations radiating their programmes is greater than 1,000 and the number of television receivers served by all these transmitters on 1st January, 1961 amounted to more than 23,000,000. Naturally, only very few of the Eurovision programmes are broadcast at the same time by all services; on the average between six to seven services take part in a given transmission. Let us recall that the number of exchanges quoted above does not include the many programme exchanges between two or three neighbouring countries for which E.B.U. coordination is not needed.

In 1961, exchanges of programmes between Eurovision and Intervention, that is between Western and Eastern Europe, have greatly increased. It is now possible to relay programmes to and from the U.S.S.R.; two routes are available, one through Helsinki, the other through Warsaw. The first programme to be relayed from the U.S.S.R. was a transmission from Moscow on 14th April, 1961 featuring Major Gagarin. The link used was through Helsinki and great credit is due to Yleisradio (Finland) for the arrangements which had finally to be made in a very short time.

However, the dominant feature of Eurovision in 1961 has been the increase of the news exchanges and the interest that they have aroused. This is a major task of

Eurovision and much thought has been given to its future development. Because of the increase in the number of television programme exchanges and especially of short-notice exchanges, it has been felt that it might, in the long run, be more convenient, and possibly more economical (if the number of exchanges rose enough) to lease the most important vision and sound links by the year for the common good, instead of renting them by the minute as at present. Such a costly scheme must of course be undertaken cautiously and it has been decided to start in 1962 by a first stage which concerns only the sound circuits. These circuits will be available at all times to carry the sound complement of television programmes. In order to gain the fullest possible return for the rental, the links will also be made available for the exchange of sound broadcast programmes. This will constitute the major development of Eurovision in 1962.

Another great event which will take place in 1962 is the experimental transmission of television programmes by means of artificial earth-satellites between the U.S.A. and Europe. It is known that the United Kingdom, France, Italy and the Federal Republic of Germany will co-operate with the American National Aeronautical and Space Administration (N.A.S.A.) in tests of satellite communication across the North Atlantic in 1962. Special aerial systems for this purpose are being erected at the Lizard, Cornwall, England and at Lannion, Côtes du Nord, France. The tests will include experimental television transmissions. There is no doubt that these experiments will be of great importance for the future development of television programme exchanges. Exchanges of television programmes with the E.B.U. Associate Members in the U.S.A. are of course already taking place using videotape recording and standards conversion.

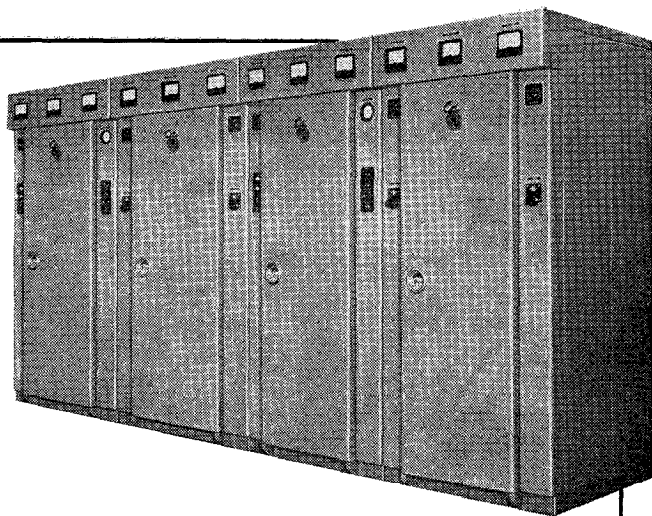
One should not forget that the 1962 transmissions across the Atlantic will only be experimental and that it will take a few years probably before they become part of a regular service, but by then other routes than the North Atlantic may be exploited in this fashion. Pictures from all parts of the world will then reach the viewers' television screen thus making the long-used expression "window on the world" at last come true.



The new operations room of the E.B.U. International Television Control Centre in Brussels. First row: vision and sound switching position. Second row: supervisory position. Third row: technical telephone position. — The operators are all facing the various monitors.

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Ales Suchy

INTERVISION

By Ales Suchy
Head of the Interservice
Coordination Centre

Despite the shortness of the period which has elapsed since the foundation of Interservice on February 2nd, 1960, its system covers four countries already, viz. the Czechoslovak SR, the Polish PR, the Hungarian PR, and the German DR and other countries such as the USSR, the Rumanian PR and the Bulgarian PR are expected to join soon.

Already today the programme exchange with the Soviet television is in full swing notwithstanding the fact that the technical link with this country is only provisional so far. This exchange arouses extraordinarily vivid interest among the Interservice audience of several million viewers because it is a very wide range of exchange from topical newsreels with Soviet cosmonauts up to performances of the Bolshoi Theatre ballet and thrilling sporting contests.

The statistics of the first year of existence of Interservice testifies to the richness of its programme. During this period from the part of the Czechoslovak, Polish, Hungarian and GDR televisions 679 transmissions were relayed of a total duration of 915 hours.

Highest proportion falls on sporting programmes, 465 broadcasts, i.e. 68.4% of the total number. The following are cultural programmes (66 broadcasts, i.e. 9.7%), topical programmes (63 broadcasts, i.e. 9.3%), entertaining programmes (57 broadcasts, i.e. 8.5%) and programmes for children (28 broadcasts, i.e. 4.1%).

It might be of interest to note that not only television viewers, but also financial directors of television organizations linked with Interservice have been beneficiaries of these exchanges. Rich international programme exchange brings considerable savings in their respective budgets.

Two facts contribute to the popularity of Interservice programmes: first, that the programmes have always been prepared with a view to the multi-

national audience and second that artistes performing in these broadcasts have always been the best ones which this or that country can offer.

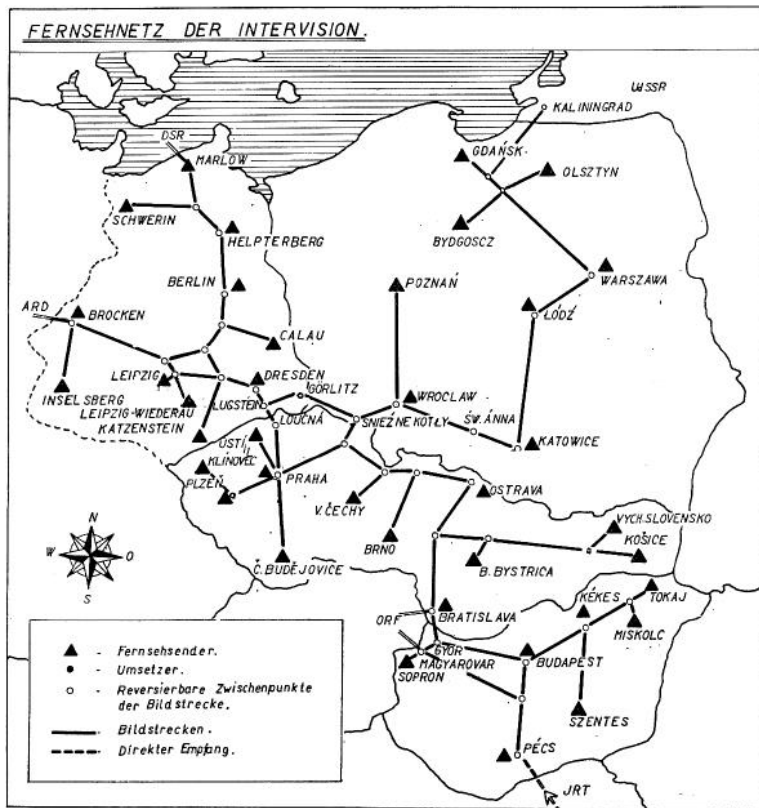
These principles are also followed by scenario writers and producers who try when working on programmes for Interservice to limit the spoken word to the very minimum if possible.

These fundamental principles which met already with a general approval have been confirmed by the daily influx of a mass of letters from viewers who follow the Interservice programmes with great interest.

However, not only television viewers help Interservice in this way. The daily and television press, too, follows carefully Interservice programmes and by their reviews helps to the systematic increasing of their quality. The cooperation with individual radio organizations affiliated to the OIRT, which propagate these programmes and inform their listeners on them, is not less close.

The cooperation with the other European television system, Eurovision, also develops successfully. This fact has been reflected in a good number of relays of political happenings of great importance as well as most varied sporting contests.

Everyday life shows us clearly that the idea of a wide cooperation of peoples of the whole world on the peaceful basis has found in television an effective help.



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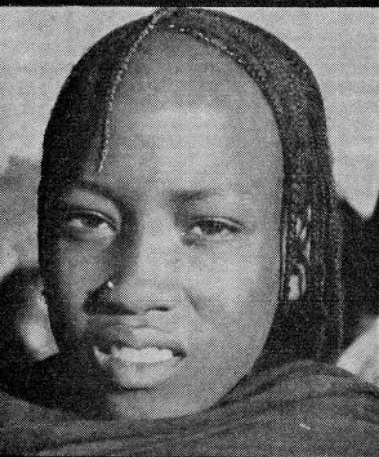
PICTURES OF THE WORLD

1. Radio Moscow: V. Solovyeva and E. Tobiash, announcers of the Soviet Radio, read the "News Bulletin".
2. Saudi Arabia: The Supervisor General of Broadcasting, Press and Publication, Sheikh Abdulla Balkhair.
3. Radio Addis Ababa, Ethiopia: A popular singer in a program from Radio Addis Ababa.
4. Republic Central Africa: The photos show a typical woman from Birao in the Rep. of Central Africa.
5. Radio Ghana: About forty programmes are broadcast daily by Radio Ghana. One of them is the Alean Women's Magazine and the photo shows panel members discussing a programme in one of the G. B. S. Studios.
6. All India Radio: Sadiq Ali Khan playing on the Vichitra Veena in the External Services of All India Radio.
7. Radio New Zealand: Ray Johnston (right) who broadcasts the Mailbox to be heard Fridays at 07.00 and 10.00. Left Miss Sianotia Anne, who composes "Calling Samoa".

1 2



3



6



7



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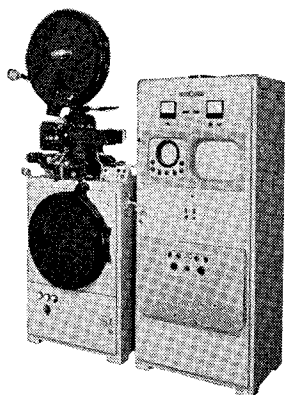
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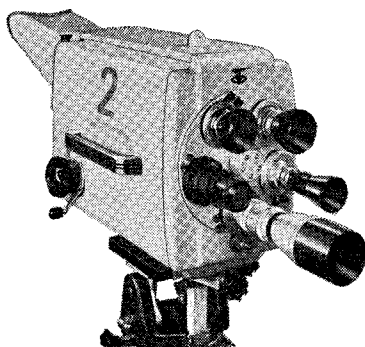
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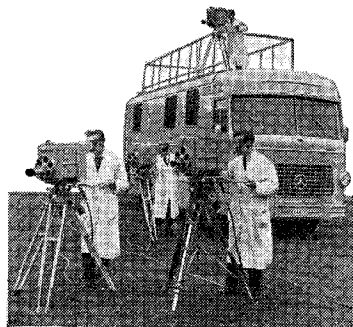


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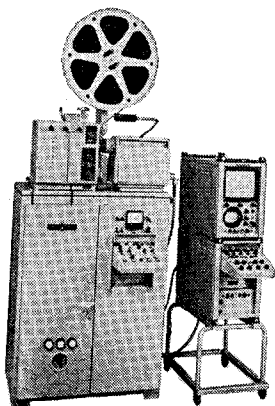


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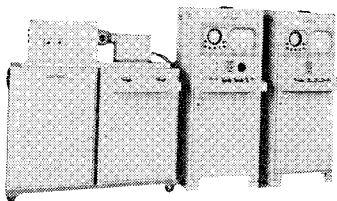
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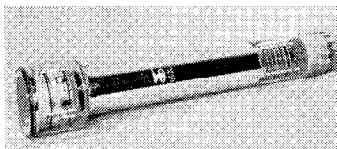
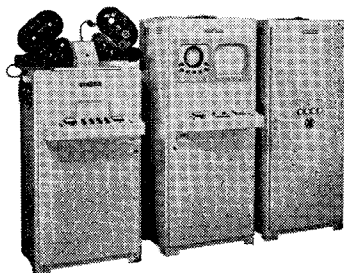


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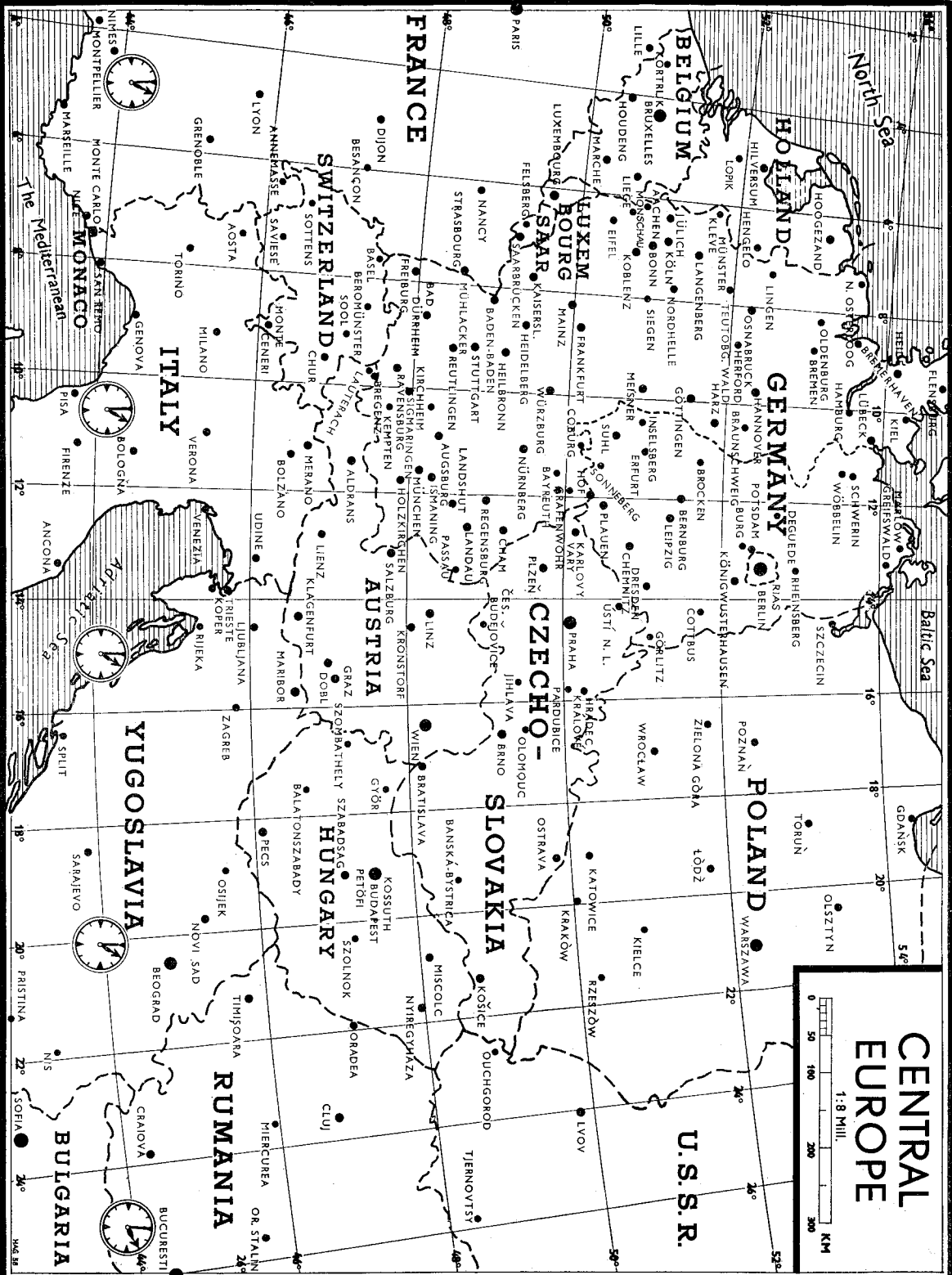
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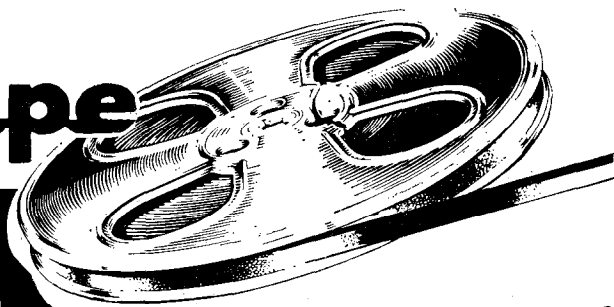
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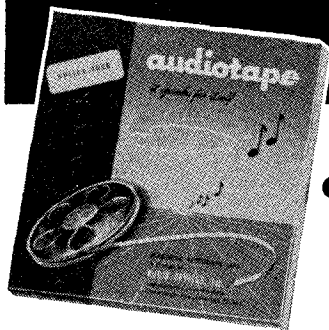
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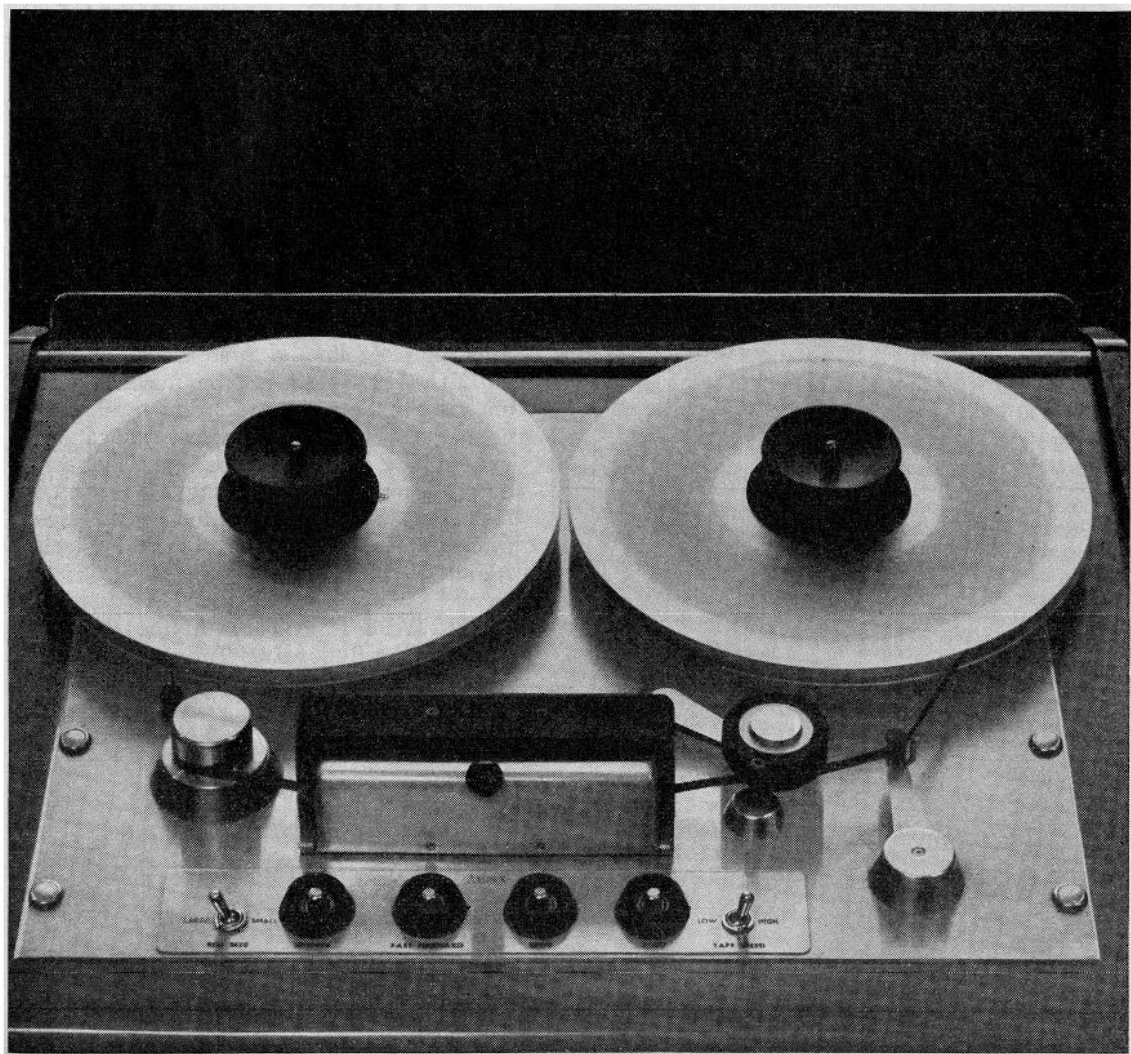
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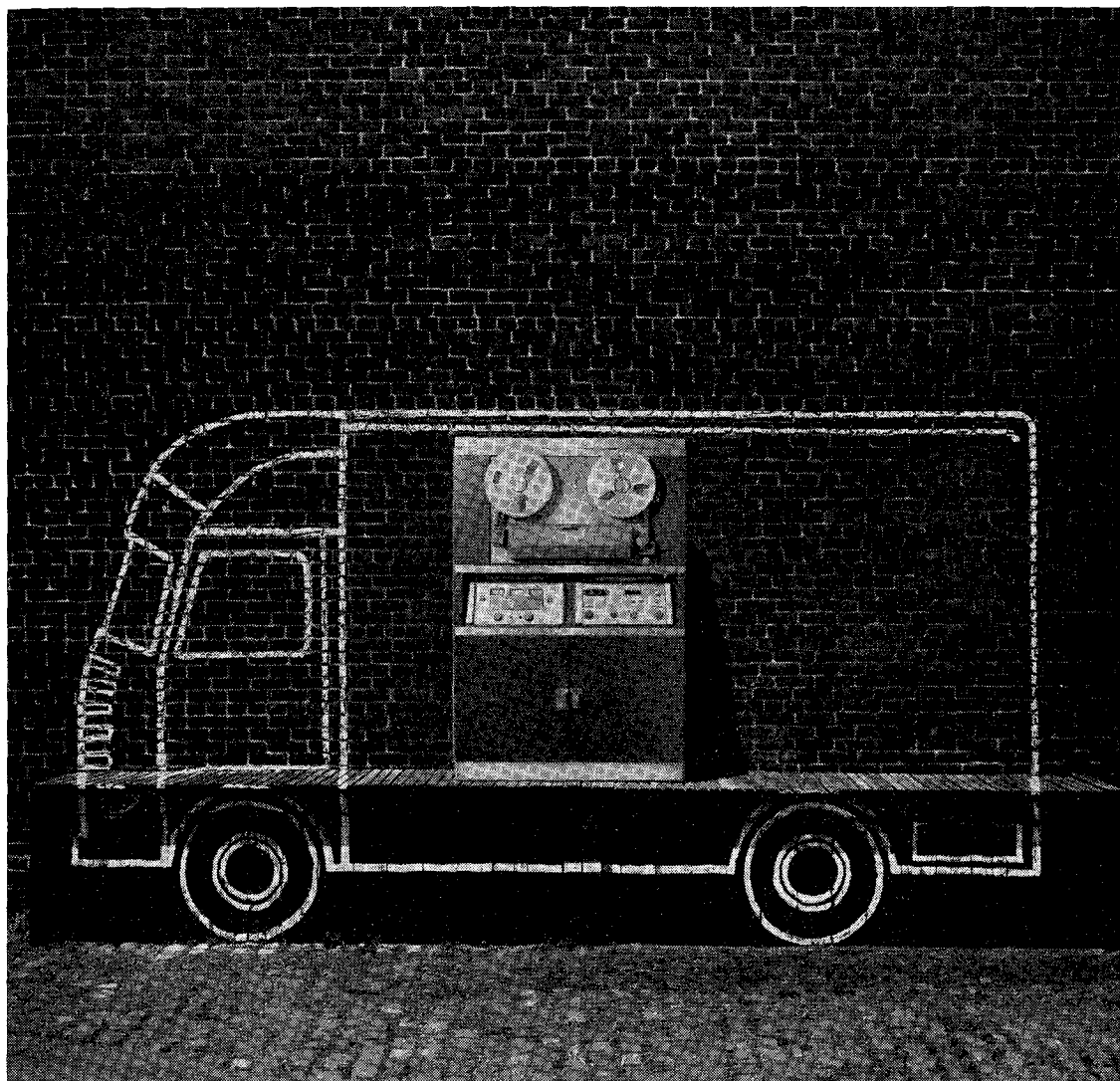
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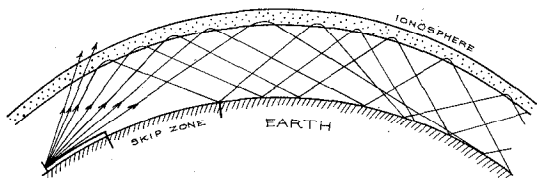
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HOW SHORT WAVES TRAVEL

By T. W. Bennington

On the short waves the energy which leaves the transmitting aerial so as to travel along the surface of the earth is soon dissipated by absorption in the ground itself, and so does not travel very far. The "ground" wave is not, therefore, relied upon for reception on these wavelengths. However, the energy which is radiated at greater angles to the earth's surface, i.e. the upward-going energy, which is known as the "sky" wave, travels to very great distances. From the transmitting aerial it continues in an upward direction until it reaches the atmospheric region known as the "ionosphere", which lies between about 100 and about 400 kilometres above the earth's surface. In this region the air is, by the action of the ultra-violet and X-ray radiation from the sun, converted from an electrical insulator into a partial conductor. On entering this region of conducting air the velocity of the short radio waves is changed, and, instead of continuing on in a straight line, their line of travel is gradually turned round and eventually directed downward towards the earth again. They thus emerge from the ionosphere travelling downwards



How the short waves travel round the earth via the ionosphere, "illuminating" a large area fits surface beyond the skip zone.

at an angle towards the earth, to reach the surface again at a point perhaps thousands of kilometres from the transmitting station. At the ground they are reflected upwards again, and the journey through the ionosphere and back to earth is repeated, and may be repeated many times, so that the waves can travel all around the earth's spherical surface in a series of "hops" between the earth and ionosphere. The "beam" of radio energy so transmitted may be a relatively wide one, so that, after the first hop wherein there exists a "skip-zone" at the earth's surface, the whole earth's surface may be "illuminated" by the downcoming radio waves.

It will easily be seen that were it not for the existence of the ionosphere the upgoing waves would pass right out into space and not return to earth, and long distance communication around the spherical earth would be impossible. As it is, however, the short waves are returned to earth at great distances by the ionosphere, and, since they travel along without undue absorption they are the most suitable wavelengths for long-distance radio communication.

It should be added that the ionosphere is not like a perfectly smooth reflecting surface, but is rather variable and subject to movement at any given time and place. This causes the path length of the radio waves to vary from instant to instant, with the result that the energy reaching



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- How to select and operate a short wave receiver.
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- How to build: Different types of aerials for short wave and medium wave reception.
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the receiving aerial may vary in phase and amplitude. This causes the received signal to vary in strength, and some of this "fading" is nearly always present, in a greater or less degree, in short-wave reception, though the automatic gain control of a receiver does overcome its worst effects.

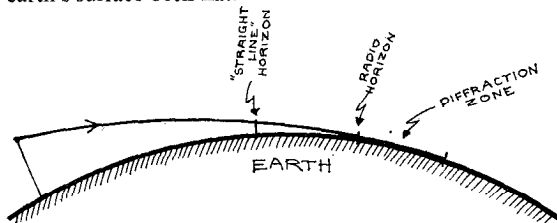
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general knowledge among the people."**

JOHN ADAMS

TELEVISION

How the VHF Waves Travel

The television services are conducted upon frequencies above 40 Mc/s (wavelengths shorter than about 7.5 metres) and on frequencies as high as this the upward-going energy from the transmitting aerial penetrates through the ionosphere (under normal conditions) and so does not return to the earth's surface to be received at a distance from the transmitter. For television reception we are, therefore, dependent upon the wave which travels from transmitting to receiving aerial just above the ground, both directly and by reflection from the ground. The curvature of the earth will, of course, set a limit to the distance at which such a wave can be received, but there are two effects which extend this distance somewhat beyond the direct "line of sight". Firstly, the path followed by the wave is not a straight line, but, because of the variation in atmospheric pressure, temperature and moisture content with height above ground, it becomes a continuously curving path, the curve being in the same direction as that of the earth but considerably more pronounced. In this way the wave is enabled to travel somewhat beyond the "line of sight" before it encounters the bulge in the earth's surface. When it *does* encounter this there is a second effect, known as diffraction, which enables it to bend around the earth's curvature to a limited extent, so that some energy penetrates beyond the "radio horizon", though, of course, there is less energy present at this point than there would have been had the earth's surface been flat.



How, under normal conditions, a TV or VHF signal can be received at a limited distance beyond the horizon.

It will easily be seen, however, that the distance at which a usable signal will be receivable will depend critically upon the heights of the transmitting and receiving aerials, for the higher these are the greater will be the distance between them which is clear of the earth's surface. Other factors which affect the distance range are the power radiated from the transmitting aerial, the frequency used and the nature of the terrain (whether smooth or mountainous). The signal strength also varies considerably between the receiving locations in any area, so it is usual to estimate the signal strength which will be exceeded at 50% of the locations.

The table below gives an idea of the maximum distances at which a workable signal would be expected in normal atmospheric conditions in a quiet country site, with a receiving aerial 10 m above the ground, for different transmitter powers and aerial heights. It applies to 50% of receiving locations for 50% of the time, is for a non-mountainous land-path and is approximately applicable over the whole v.h.f. band.

Approximate Maximum Distances for Fair Television Reception

Long-Distance Reception

As indicated above television reception is not normally possible over a long distance. There can arise conditions, however, under which it is possible to obtain reception on television frequencies over long distances, and three separate phenomena can give rise to this.

Firstly, the F_2 layer of the ionosphere can, at times near sunspot maximum, become so highly ionised that it is capable of reflecting the television frequencies and so of propagating them over very long distances, as it normally does with the ordinary short waves. This is only likely to occur during the daytime and during the winter and equinox only, and, since the sunspot activity is now declining towards a minimum, it is unlikely to occur at all for several years to come. With this type of propagation good sound signals may be received on frequencies up to about 60 Mc/s over very long distances, but picture reception is unlikely to be good owing to the unstable nature of the F_2 layer.

The second condition can give rise to television reception between 800 and 2300 km from the transmitter, and occurs by virtue of the formation of highly ionised clouds in the ionospheric E region, known as Sporadic E, which are capable of reflecting the television frequencies. Such reception may occur at any phase of the sunspot cycle, but it is much more likely during the four months centred on the summer solstice, than at other seasons of the year. It is much more likely during daytime than at night, but even during summer daytime is not of regular occurrence, but rather it happens at odd times and lasts for from half an hour to several hours. Reception by this means is possible on frequencies up to about 100 Mc/s, and good sound signals may be received with fair picture reception for short periods.

Thirdly, television reception may occur at distances beyond the normal range and up to 800 km or more when certain meteorological conditions prevail such as give rise to "abnormal tropospheric propagation". Under these conditions the waves are reflected or "scattered" at layers of air in the lower atmosphere which have different electrical characteristics from those of the air nearer the ground. Such meteorological conditions can occur at any time of the day or season, but, since they are associated with anticyclones and periods of "settled" weather are rather more prevalent in summer than at other seasons. Such reception may occur for hours at a time whilst the necessary conditions last, and, whilst it may be subject to some fading, good sound and fair picture reception may be obtained. It may occur over a range of frequencies covering most of those presently used for television transmission.

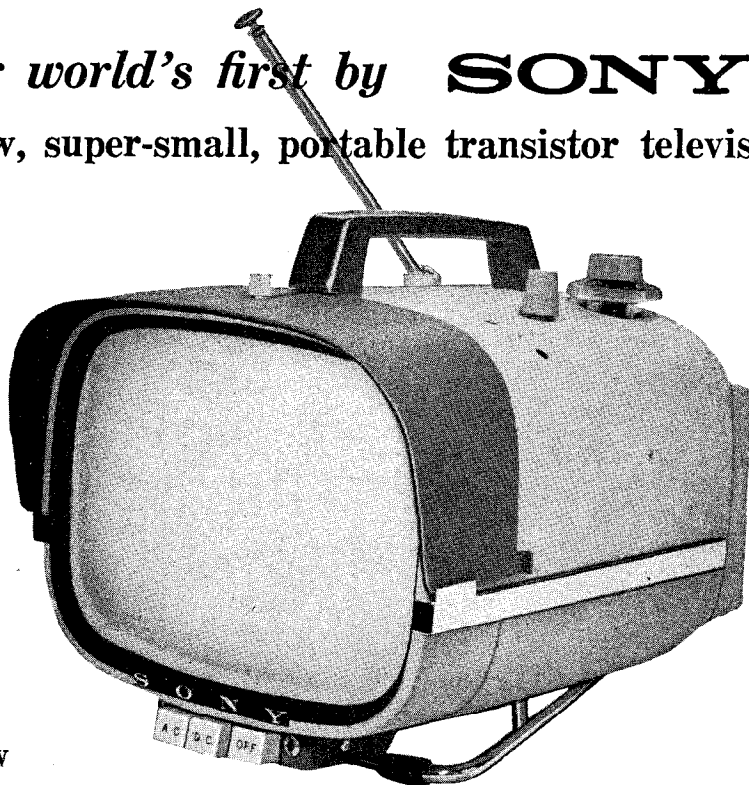
T. W. Bennington

Power	Transmitting aerial height 200 m	Transmitting aerial height 300 m	Transmitting aerial height 400 m
kW	km	km	km
10	90	100	110
50	110	120	130
100	120	130	140
500	150	160	170

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RADIOCOMMUNICATION VIA SATELLITES

By
T.W. Bennington

Long-distance communication between terrestrial points has, hitherto, only been possible because of the existence of the ionosphere, which is the natural reflecting medium for radio waves, preventing their escape into space and guiding them to long distances round the spherically shaped earth. But the range of frequencies which the ionosphere is capable of reflecting in this way is very limited, and those above about 30 Mc/s penetrate through it and so are not returned to earth and are therefore useless for regular longdistance communication.

At the present time there are more stations engaged in long-distance communication in the H. F. band (below 30 Mc/s) than there are channels in which to accommodate them, and the result is that there is a considerable amount of interference between the stations. And since the world's long-distance services are continually expanding and are likely to do so in the future at an even faster rate, it becomes imperative to find additional spectrum space for these services in order to avoid chaotic congestion in the H. F. band. If therefore the V. H. F. band and even much higher frequencies could be made usable for long-distance working then this would solve the problem, for a very large number of additional channels would become available on these frequencies. But since communication between points on earth cannot be achieved on these frequencies by way of the ionosphere it is necessary

to provide a new medium to permit of such communication. That medium is the artificial satellite.

Several schemes for the utilisation for long-distance working of the higher frequencies by artificial means have been proposed, and some have undergone successful experimentation, but we will here confine ourselves to a brief description of those which appear most useful and probable of early achievement.

The number of satellites required in order to permit of continuous communication between any two terrestrial points would depend upon the height of the satellite orbit, for this would determine the length of time that a satellite would be simultaneously »visible« to the two points. One scheme proposes to put a number of satellites into polar orbits at a height of about 4000 to 5000 kilometres, in which case the orbital time would be about 3 hours. Any one satellite would, however, only be simultaneously »visible« to two earth points during a small part of each orbit, and as communication between the points would be limited to that time, it would be necessary to have about 30 satellites in order to ensure something like continuous communication. The situation is illustrated in Fig. 1. As a satellite comes above the horizon at ground station A it can be used for communication between that station and station B, and this communication can be maintained until the satellite passes below the horizon at one of the stations, after which another satellite must be used. The ground stations would have to be equipped with large steerable »dish« aerial systems, in order to be able to follow the satellites in their orbits.

Another scheme is to place satellites in equatorial orbits at a height of about 35,700 kilometres, as illustrated in Fig. 2. The necessary orbital speed at this height would be such that the satellites would make one orbit

(Continued page 42)

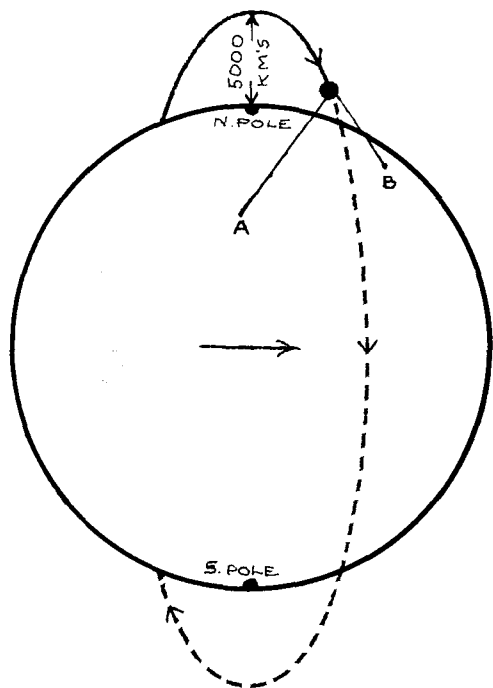


Fig. 1.
Satellites in 5000 km polar orbits, for communication between two territorial points during a small part of each orbit. Only one of the many satellites required in order to maintain continuous communication is shown.

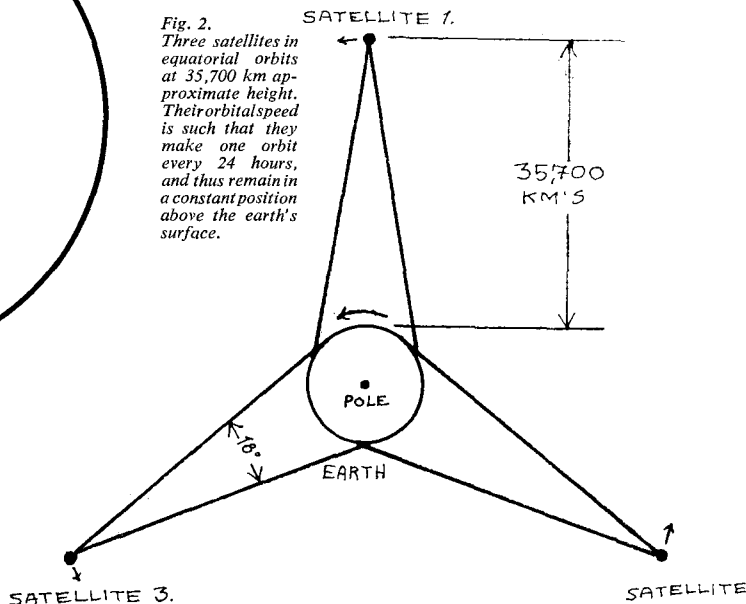


Fig. 2.
Three satellites in equatorial orbits at 35,700 km approximate height. Their orbital speed is such that they make one orbit every 24 hours, and thus remain in a constant position above the earth's surface.

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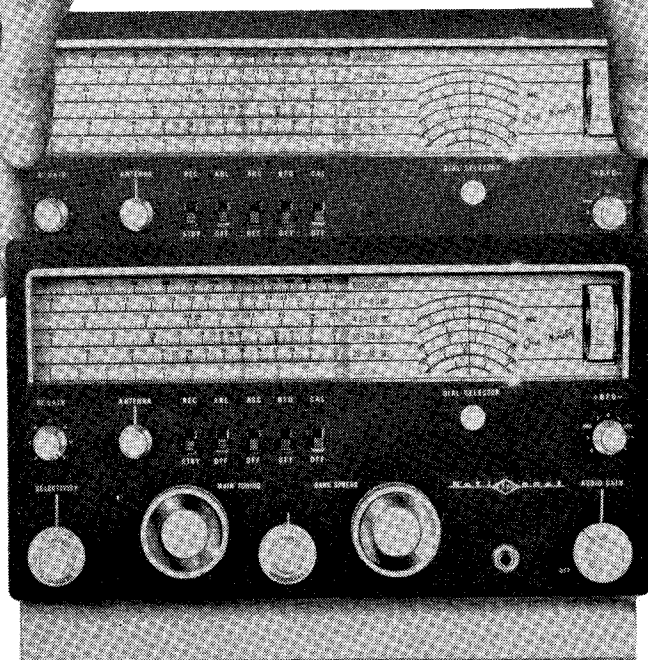
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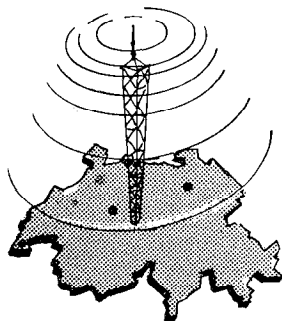
THE PROJECTED EUROPEAN PROTESTANT RADIO STATION IN SWITZERLAND BROADCASTING THE GOSPEL IN:

Arabic, Bulgarian, Czech-Slovak, Danish, Dutch, English, Esperanto, Finnish, French, German, Hebrew, Hungarian, Italian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovene, Spanish, Swedish.

- It is intended to broadcast 8 hours daily over several wave bands in sufficient power to cover all European countries and beyond.
- Leaders of State Churches and Free Evangelical Churches in 58 nations have given their support to the project.
- The Station will be under the supervision of an Interdenominational European Committee.

Details regarding this project are issued in "epi news service" (German, French, Italian, Dutch and Spanish editions are also available). For further information and FREE Radio Brochure, write to:

E. P. I. - P. O. Box 392, BERNE 2 (Switzerland).



RADIOCOMMUNICATON VIA SATELLITES (continued from page 40)

every 24 hours, so that, the direction of their travel being the same as the direction of the earth's rotation, the satellites would maintain a constant position with respect to the earth, i.e. they would remain above the same earthly point all the time. Thus the aerials at the ground stations could remain fixed in the direction of the appropriate satellite and only 3 satellites would be necessary for covering practically all the inhabited regions of the earth.

Communication satellites can be either passive or active in their mode of operation. A passive satellite may take the form of a spherical inflated balloon, of some 30 to 300 m diameter, made of fabric with a thin deposited metallic coating to form the surface. This would reflect or scatter the radio waves so that they returned to earth at distant points. Such a satellite could be used simultaneously by many different services operating on different frequencies. The ground stations would require very high transmitter powers with high-gain aerials used in conjunction with very sensitive receivers, in order to make use of the low received power obtained after reflection from the satellite.

An active satellite, whilst being a much more complicated mechanism than the passive type, would possess many advantages over it. Indeed if the satellite orbits were at a very great height, as for example in the 3 satellite system mentioned above, the satellites would have to be the active type in order to provide a workable signal at the ground. An active satellite would be equipped with receivers, low power transmitters, aerials for these, and a power system comprised of solar batteries. It would be necessary to embody a power storage system for use while the satellite was in the earth's shadow and not receiving energy from the sun. Such a satellite would be built of more solid material than the passive type, and so would

be less vulnerable to damage by collision with small space particles such as meteors. It would give a much better signal/noise ratio at the ground stations. Since it would possess its own power system it could be corrected for position and attitude by ground control. On the other hand it, unlike the passive reflector, could handle only a limited number of communication channels.

Active satellites could be used for direct communication between two ground stations, or the messages could be received and recorded by the satellite when within range of one station, for retransmission later when within range of another ground station on command from that station.

The most suitable frequencies for use by communication satellites would appear to be those between about 1000 and 10,000 Mc/s, for on frequencies below this range the cosmic noise becomes of higher intensity, whilst on frequencies above 10,000 Mc/s there are likely to be disadvantageous effects due to atmospheric absorption.

A system of communication satellites could be arranged to accommodate hundreds of commercial telegraph or telephone circuits, and some of these could, of course, be used for sound broadcast transmission either for relay to the listener from a local broadcast transmitter or for direct reception. For two-way telephony the distance from ground station to satellite to ground station should not be so great as to introduce an objectionable time delay, which would make conversation difficult. But this would not be an objection in one-way direct transmission such, for example, as broadcast transmission. Lastly a satellite system could be arranged to accommodate several television channels, for use as relay circuits between distant television stations, or possibly for direct reception by the private television viewer.

Advanced Designs ... New

Bauer **AM TRANSMITTERS**

**1000 • 5000 • 10000
WATT MODELS**

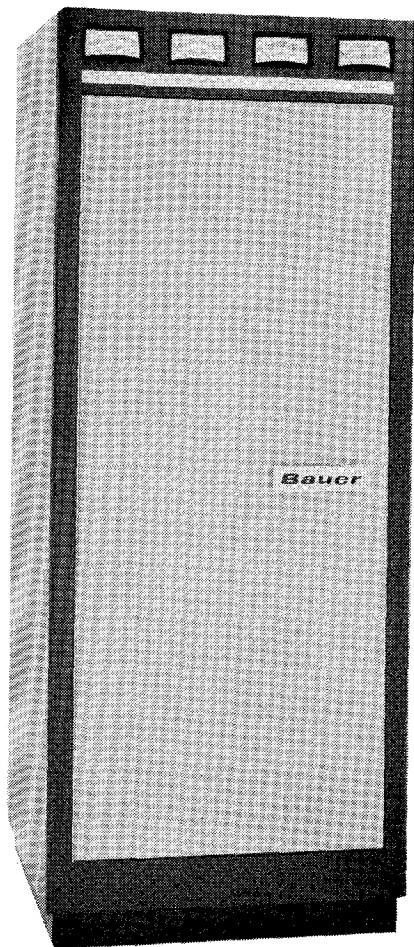
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DA-61/232

SOLAR ACTIVITY IN 1962

by Professor Dr. M. Waldmeier. Eidg. Sternwarte, Observatoire Astron. Federal, Zürich.



Prof. Dr. M. Waldmeier

The propagation of radio short waves is subjected to a diurnal as well as to a seasonal variation, and in addition it is influenced by the year-to-year changes of sunspot activity. This solar activity shows a rather regular 11-year period. Its last maximum was recorded in 1937.4, in 1947.5, and in 1957.9, and the minimum years were 1944 and 1954. Having taken regular measurements of the critical frequencies from vertical soundings for about 25

years, it has been found that the upper limit of the reflected frequencies increases in accordance with the degree of sunspot activity and amounts to about twice the value at sunspot maximum as at sunspot minimum. For this reason the short-wave stations change their wavelengths in the course of the 11-year sunspot cycle. Considering that for nearly three cycles parallel observations of the Zurich Sunspot-Numbers and the critical frequencies have been available, the most favourable frequencies may be forecasted, supposed that we are able to predict the sunspot-numbers. But, only after having found important features of the sunspot variations has it become possible to give predictions of the sunspot-numbers. In 1935 the author detected some of the laws governing the solar activity, which enabled him to predict the course of sunspot activity in the years ahead. The predicted maximum value for 1937 was 124, whereas the highest smoothed relative-number amounted to 119, for 1947 the predicted value was 139 and the observations gave 152, and for the maximum in 1957 the prediction was ≥ 170 , whereas according to the observations the relative-number amounted to 201. As regards the last maximum its prediction was extremely difficult, considering that this cycle showed many anomalies and, in addition, during the whole 250 years of records there never occurred such an intense maximum. It is hardly necessary to mention that more accurate predictions can be given for shorter intervals. For many years the Swiss Shortwave Service emits regularly the daily relative-numbers for the expired month as well as predictions for the coming six months. The present emission-times are given in table 1.

Table 2 gives the smoothed monthly Sunspot-Relative-Numbers for the running cycle. The observed monthly means show a strong decrease at the end of 1960. Throughout the year 1961 the solar activity was at a medium level. Now it will decrease at a slow rate for the years to come. The smoothed sunspot-number will drop from about 46 at the beginning of 1962 to about 28 at the end of that year. Similar solar activities have been observed in the years 1930, 1935, 1942, 1945, 1952, and 1955; therefore the conditions of short-wave transmission will be as those observed in the mentioned years.

(To be continued next page)

**The New
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SINGLE - SIDEBAND
BROADCAST**

Transmitter Adapter

MODEL CSSB-55-1A



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LABORATORIES, Inc.**

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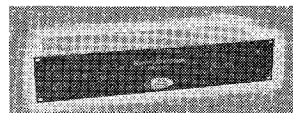
features:

- Compatible with Existing AM Transmitters and Receivers
- Doubles Effective Transmitter Power
- Minimizes Selective Fading Distortion
- Reduces Adjacent and Co-channel Interference
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✓ **SYMMETRA-PEAK**

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- True Stereo Broadcasts with One AM Transmitter • True Stereo Reception on Two Standard AM Receivers • Compatible Monaural Reception on one Standard Receiver • Compatible Single-Sideband Mode Included.

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Solar Activity (*continued*).

The whole material on Sunspot-Numbers has now been published*. The book gives tables and graphical representations of the daily sunspot-numbers back to 1818, monthly means back to 1749, yearly means back to 1700

and for the earlier years from the discovery of the sunspots (1610) the epochs of maxima and minima are given.

* M. Waldmeier, The Sunspot-Activity in the years 1610-1960, published by Eidgenössische Sternwarte Zürich, Schmelzbergstrasse 25, Price SFr. 18.-, approx.

**Table 1. Emission-times of the Sunspot-Relative-Numbers by the Swiss Broadcasting Corporation:
Valid from November 5th, 1961 to May 6th, 1962**

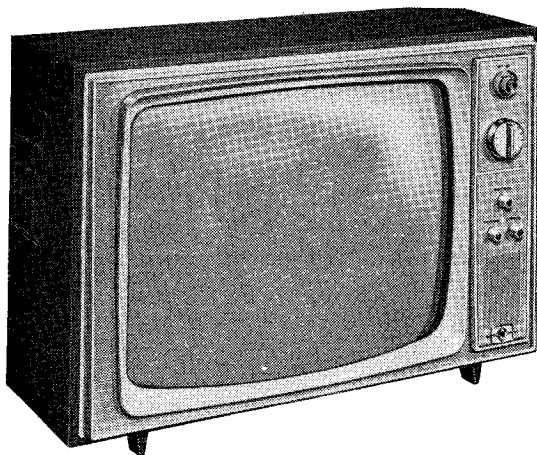
Destination of Emission	Time of Emission		Wavelengths		
England and Ireland	19.10	U.T.	41.61 m	31.43 m	
North America	8.55 p.m.	E.S.T.	48.66 m	31.46 m	25.28 m
	11.40 p.m.	E.S.T.			
Australia, New Zealand	09.25	U.T.	25.28 m	19.59 m	13.94 m
South-East Asia, Japan	13.10	U.T.	31.04 m	19.59 m	13.94 m
India, Pakistan, South Africa	15.10	U.T.	25.28 m	19.59 m	16.86 m
Near East	17.10	U.T.	31.04 m	25.28 m	
Spain	22.30	U.T.	31.43 m	25.28 m	
South America	00.45	U.T.	31.46 m	25.28 m	19.59 m
	04.00	U.T.			

Day of Emission: first Friday of each month

Table 2. Smoothed Monthly Sunspot-Relative-Numbers 1954 - 1960

Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Yearly Mean
1954	6.4	5.6	4.2	3.4	3.7	4.2	5.4	7.2	7.8	7.9	9.5	12.0	6.4
1955	14.2	16.4	19.5	23.4	28.8	35.1	40.1	46.5	55.5	64.4	73.0	81.0	41.5
1956	88.8	98.5	109.3	118.7	127.4	136.9	145.5	149.6	151.5	155.8	159.6	164.3	133.8
1957	170.2	172.2	174.3	181.0	185.5	187.9	191.4	194.4	197.3	199.5	200.8	200.1	187.9
1958	199.0	200.9	201.3	196.8	191.4	186.8	185.2	184.9	183.8	182.2	180.7	180.5	189.5
1959	178.6	176.9	174.5	169.2	165.1	161.4	155.8	151.3	146.3	141.1	137.2	132.5	157.5
1960	128.9	125.0	121.6	119.6	117.0	113.9	(108.4)	(101.9)	(97.2)	(92.6)	(87.2)	(82.9)	(108.0)

... AND FOR VIEWERS A WIDE RANGE OF THE WORLDS FINEST RECEIVERS



In more and more countries throughout the world Pye television receivers are bringing all the magic of the screen to people of every race, creed and colour. For Pye are recognised as pioneers of advanced design—such outstanding developments as transformerless TV,

Automatic Picture Control, 13-channel tuning and the printed circuit were all introduced by Pye. Nowadays, wherever you go, the Pye trade-mark is the symbol of perfection, quality and performance among producers and viewers alike.

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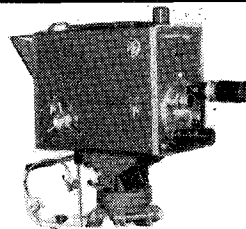
A PACKAGED TELEVISION STATION FOR ONLY £17,000



THE "CAMBRIDGE" TV STATION

The "Cambridge" station equipment, costing £17,000 ex works Cambridge, has been especially designed for use in smaller communities where the cost of a more complex installation may be prohibitive. All the essential technical facilities are provided in their most basic and reliable form—including a new conception in television cameras. Educational programmes, news, entertainment, films and general TV programming can be easily provided, using a minimum of technical staff.

Full Information is available on the "Cambridge" TV Station, from Pye TVT Ltd.



Two 4-lens static cameras. Microphones and lighting equipment. Control console with full mixing and monitoring facilities. Two 16 mm. telecine channels with automatic slide projectors. 100 watt. transmitter — mast — aerial.



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RADIO WORKS, CAMBRIDGE, ENGLAND



1 2



PICTURES OF THE WORLD

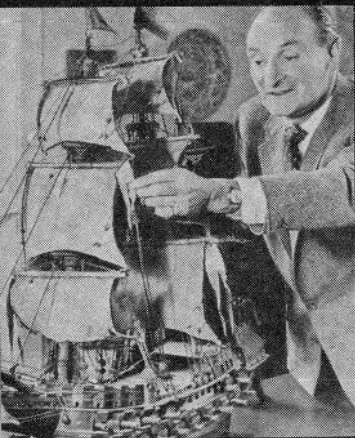
1. Rep. Central Africa: Radio Bangui has sent us this photo of a Laibala dancer from Bocarang.

2 and 4. Tonga Broadcasting: 2. Hon. Ve'hala playing the Station identification music on the Tongan Nose Flute. — 4. Her Majesty Queen Salote arriving at the Studio being met by HRH Prince Tungi (left), the Manager of Tonga Broadcasting Mr. R. Geoff Haggett (right) and his wife.

3. Radio Nederland Wereldomroep: This is the Red, White and Blue of "Flying Dutchman" time, says Edward Startz, producer of the "Happy Station" broadcast.

5. British Broadcasting Corporation Television Service: "An Age of Kings", the great Shakespeare television serial, ranging over the lives and times of the fifteenth Century Kings of England. The picture shows Henry IV at a council meeting.

6. Radio ELWA, Liberia: Children's hour in the studio.



3

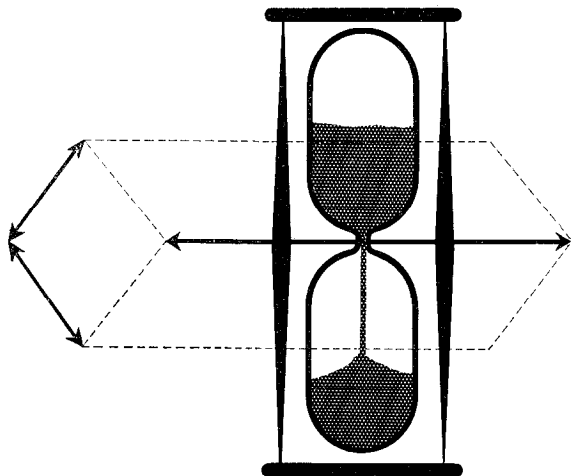
5



6

STC

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RELIABILITY...

The fourth dimension, time — invisible and intangible, but in the case of STC components, definable in terms of sustained, faultless performance—is a very definite factor incorporated in their design and manufacture.

Such dependability is very necessary in view of the vital functions that STC components have to perform—in equipment for communications, navigation and remote control; and it is the reason why STC components are trusted implicitly by manufacturers of electronic equipment all over the world.

- Capacitors
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- Thermal Delay Switches
- Thermistors
- Thermocouples
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Standard Telephones and Cables Limited

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HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio Television Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver. For the beginner, it will serve as an introduction to the thousands of stations broadcasting in all parts of the world. For the experienced listener, it will be an invaluable guide to program services of specific countries and an able assistant in identifying stations.

The principal contents of this book are divided into three sections: 1) instructive articles, practical information regarding the organisation of broadcasting and television lists and tables of practical value etc.; 2) a listing by country of broadcasting stations, programs, times, call signs, etc.; - 3) a listing by country of television stations, and 4) a listing by frequency and wave length of the main long-, medium- and short-wave stations.

The second section, beginning on page 65, is divided into seven geographical categories: Europe, Africa, the East, the Pacific, North America, Central America and South America. Countries are arranged alphabetically in each geographical category. The information on the broadcasting services of each country includes:

Local time in relation to Greenwich Mean Time; **principal Language or Languages** of the country; **number of Population**; **total number of Receivers in use** and data for the electric current used.

Names and addresses of broadcasting companies (commercial broadcasts are identified as such).

Financing and names and titles of leading officials of each company.

List of AM and FM stations operated by each company with call signs, frequencies, wave lengths and powers expressed in kilowatts.

Every radio station whether in the long-, medium- or short-wave range, has an identifying call sign of three to five letters or a combination of letters and figures of which the first, or first two, denote nationality in accordance with the international list of prefixes. Some stations always use these call signs when identifying themselves. Others do not.

Since many broadcast stations also operate FM and TV stations, a common practise is to authorize the use of the call letters of the AM stations followed by a dash and FM or TV, as the case may be.

Short-wave stations usually employ directional aerials to beam their programs to particular areas on frequencies and at times calculated for best reception. The reception areas give their names to the services, e.g.: European Service, Near Eastern Service, Latin-American Service, Far Eastern Service, etc. The language employed is that of the listeners in the area to which the broadcast is directed. The best reception usually is obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas. Short-wave propagation conditions change continually because of influences of daylight and darkness, seasonal considerations and solar activity. Consequently, good reception requires waveband changes from time to time.

Long- and medium-wave AM stations are divided into three categories: 1) **Main stations**, which are so powerful they generally can be received throughout the country of

origin and often in neighboring countries. Most broadcasts emanate from these stations. - 2) **Regional stations**, which can be received only within a certain region of a country. Broadcasts normally consist partly of origin programs and partly of re-transmitted programs of main stations. - 3) **Relay and local stations**, which mostly re-transmit main-station programs. These stations have low power ratings and can be heard only within a limited area.

FM stations constitute another category. They give listeners an interference-free reception, but they have a short radius and are considered local stations.

Frequency and wavelength. Frequencies are measured in kilocycles per second (kc/s) and megacycles per second (Mc/s). A kilocycle is 1,000 cycles; a megacycle is 1,000,000 cycles. Wavelengths are measured in metres (m) and divided into the following groups: long waves, medium waves and short waves (15-30,000 kc/s). The FM band (88-108 Mc/s or 87.5-100 Mc/s in European System) and TV band identified by frequency rather than wavelength are in the very high frequency (VHF) range: **Band I:** European 41-68 Mc/s. American: 54-88 Mc/s. **Band II:** European 174-233 Mc/s. American 174-216 Mc/s.

An FM broadcast requires a channel 20 times wider than that used for AM, but a TV transmission of combined picture and sound needs about 6 times the spectrum space occupied by the entire AM medium wave broadcast band.

Every radio emission has a quantity measurable in both frequency and wave length and since the velocity of propagation in space, is in round figures, 300,000,000 meters per second, any one of the quantities-meters, kilocycles or megacycles-is readily converted into the other forms by means of the following formulae:

Meters to Kilocycles

$$\text{Meters} = 300,000/\text{frequency (kc/s)}$$

Kilocycles to Meters

$$\text{Kilocycles} = 300,000/\text{Wavelength (meters)}$$

Meters to Megacycles

$$\text{Meters} = 300/\text{frequency (Mc/s)}$$

Megacycles to Meters

$$\text{Mc/s} = 3/\text{Wavelength (meters)}$$

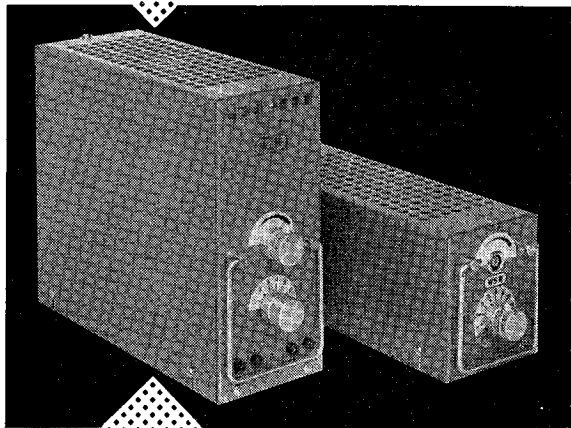
The majority of international short-wave broadcasts will be found on the following meter bands (m.b.): 49 m.b., 41 m.b., 31 m.b., 25 m.b., 19 m.b., 16 m.b., 13 m.b., and 11 m.b. The 31 m.b., 25 m.b., 19 m.b. and 16 m.b. are the most active of the eight bands and some of the most rewarding programs are found here. However, many short-wave stations operate outside these wave lengths. The 60 m.b. and 80 m.b. are used for local broadcasting (reception over relatively short distances), particularly in the USSR. South and Central America, Canada, Australia and in Central Africa, where short-wave broadcasting is an integral part of national domestic broadcasting.

In many parts of the world short-wave transmissions are picked up and re-broadcast from local stations or short-wave relay stations. In many territories, there are wire broadcasting services where the transmissions are centrally received and are then sent out by wire.

Many programs are broadcast simultaneously from several transmitters on different wave lengths, enabling



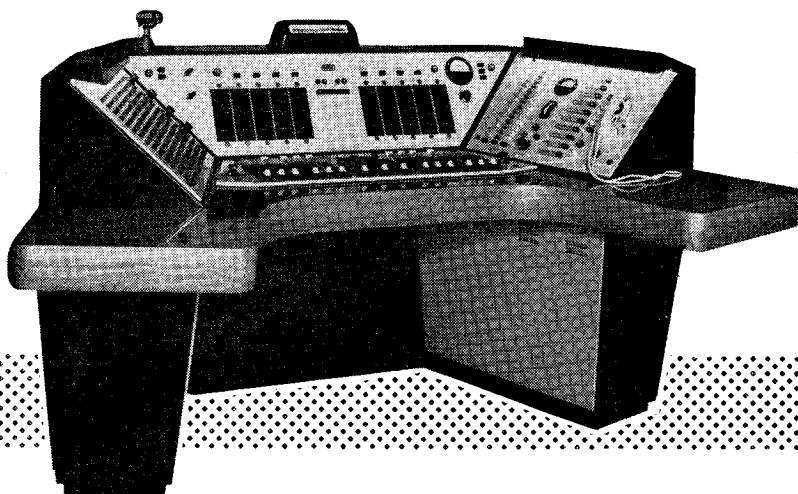
Broadcast and Television Audio Equipment



Studio Equipment designed as
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you to select the band most clearly audible in your area. If reception on one wave length is poor, you should examine conditions on others employed by the same station. On page 58 is a table of the most suitable bands for short-wave reception in every part of the world at various times of day throughout the year. In an article on page 61 T. W. Bennington tells you about the reception conditions of the different bands during 1962.

Program Times used in the listings are based on the 24-hour clock. Midnight is 00.00 hrs., 3 a.m. is 03.00 hrs., 9 a.m. is 09.00 hrs. and midday is 12.00 hrs. Then, instead of starting another 12-hour cycle (p.m.), under the 24-hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hrs., 10 p.m. is 22.00 hrs., and so on until 23.59 hrs. (11:59 p.m.) is reached and a new 24-hour cycle starts. The system eliminates any possible confusion between times a.m. and times p.m. You can obtain the times in which transmissions of a particular programme and/or language are transmitted by running over the pages of the World Survey of Sound Broadcasting.

Time Conversion. All programmes are listed in GMT. To find the time when a programme can be heard in your area it is accordingly necessary to equate your local time with Greenwich Mean Time (GMT): By referring to the World Time Table on page 59 you can discover how many hours your local time is ahead or behind GMT. Suppose you live at Ottawa and want to hear a programme from Tokio listed as taking place at 07.00 GMT. Ottawa being 5 hrs. behind GMT you must subtract this figure from 07.00 hrs., which means that you must tune in at 02.00 Ottawa time. Daylight saving time adds an hour to local time, and the dates it is in effect in various parts of the world are noted in the World Time Table. If you are listening at sea you should consult the radio-officer for the difference between ship time at your position and GMT.

Daily Programs. Under this heading in the listing you will find information concerning the total broadcasting hours on the different frequencies employed and in the different languages by a particular station, as well as surveys of the news and in many cases other fixed programs of interest such as folklore music, mailbag, language lessons, weather reports, time signals, etc. See also the pages 56 and 61.

Identification of Stations. Language alone is not conclusive evidence of a station's nationality since international stations often beam broadcasts to foreign areas in the language of the listeners. Hearing a program in French or Spanish, for example, does not necessarily mean the station is French or Spanish. To make sure of correctly identifying a station it is necessary to wait for the identification announcement which every station broadcasts at regular intervals. Call signs and other means of identification are given in this book for practically all stations.

For identifying stations it also is important to know the signals used during the intervals between the programs. Under each station, therefore, you will find an indication of the type of signal used, and in many cases a reproduction of the musical notes of the signal. Quite often one transmitter uses several wavelengths, as noted above, and employs different aerials designed to radiate signals to the best advantage in respect of each service. The various call signs sometimes are used in these instances to identify individual wavelengths.

The last section of this book lists long-, medium- and short-wave stations according to frequency and wavelength. The information includes call signs, location of station or stations on a given frequency and station power in terms in kilowatts.

How to identify a station by frequency or wavelength:

When you come across a station that is unknown to you, proceed as follows for identification: read the approximate frequency or wavelength indicated on your dial. Next, turn to the table: *Short Wave stations of the world* and ascertain what stations are working in that neighbourhood. When you have narrowed the field to one or two possibilities and have noted details of the program and language, check these data against the program listings to determine whether the station is scheduled to be broadcasting at that time and the type of program listed. For confirmation it is advisable to wait for the station announcement or interval signal.

Verification by QSL-cards. As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most listings indicate whether a station uses QSL-card or answers by letter, and when return postage is required this is stated also. Return postage should be sent in form of an International Reply Coupon, obtainable at post offices in the countries of the International Postal Union. Reports should be sent to the station address as given in the program listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

The **NEW GUIDE for SHORT WAVE LISTENING** (a new edition of "How to listen to the world") gives all necessary information about how to write reports to stations. See the advertisement page 36.

International television stations and programs for all parts of the world are listed in the section of this book beginning on page 193.

Other useful information includes a list of stations devoted to time signals and frequency-standards broadcasts on page 192, an index to broadcasting organizations on page 8 and religious broadcasting organizations incl. religious stations on the page 14.

The reception reports mentioned above are particularly useful to radio engineers in selecting the most suitable wave lengths for broadcasts beamed to your area. Reports are more meaningful if the SINPO or "555" code is used: The codes are as follows:

SINPO-code				
S	I	N	P	O
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable
S = signal strength. I = interference. N = noise. P = propagation disturbance. O = overall merit.				
+555 = -code				
S	I	O		
0 inaudible	0 very strong	0 nil		
1 very weak	1 strong	1 very poor		
2 weak	2 fairly strong	2 poor		
3 fairly strong	3 weak	3 fair		
4 strong	4 very weak	4 good		
5 very strong	5 none	5 very good		

Example: 543 means a very strong signal with weak interference reducing the overall reception merit to fair.

GEVASONOR

T 201 MAGNETIC FILM



for perfect
tone
quality

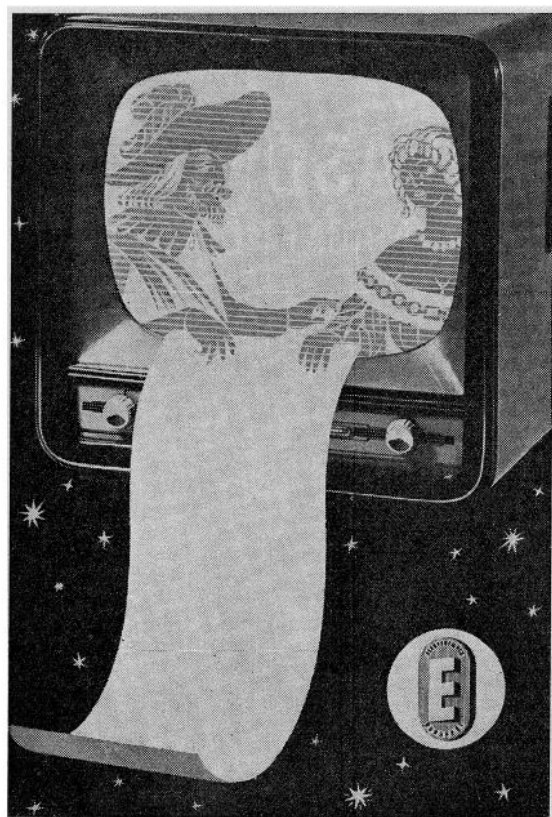
Gevaert has introduced a new highly polished magnetic recording film, Gevasonor T 201 which has a mirror smooth surface giving the following advantages :

1. Better contact with the sound heads assuring improved recording and reproduction.
2. Because of the mirror smooth surface wear on the sound head is very much reduced.
3. ...very good rendering of the high frequencies is assured.
4. The new Gevasonor T 201 Magnetic Film is dust-free
5. ...recording and play-back sound heads remain clean.

These improvements ensure perfect tone quality
T 201 is supplied in the standard packings



PHOTO-PRODUITS GEVAERT S.A. - MORTSEL (ANTWERP) BELGIUM



NUMBER OF RADIO AND TV- RECEIVERS in use in each country

Country	Po.	R. Rcvrs	TV. Rcvrs
Aden	250.000	50.000	-
Afghanistan	12.000.000	23.800	-
Albania	1.625.000	65.400	-
Algeria	9.800.000	617.000	60.000
Andorra	7.000	3.000	-
Angola	4.362.264	53.133	-
Argentina	20.959.000	5.000.000	700.000
Australia	10.461.484	2.250.000	1.250.000
Austria	7.010.000	2.091.594	252.937
Azores	350.000	5.059	-
Bahamas	105.000	30.000	-
Bahrain	143.213	25.000	-
Barbados	237.000	21.000	-
Belgium	9.220.000	2.758.362	737.000
Bermuda	44.000	18.400	10.000
Bolivia	3.700.000	255.000	-
Borneo North	454.000	15.000	-
Brazil	61.275.000	4.700.000	1.356.000
Brunei	83.877	8.000	-
Bulgaria	7.629.254	1.581.786	8.900
Burma	21.500.000	100.000	-
Cambodia	5.000.000	42.000	-
Cameroon	3.500.000	100.000	-
Canada	18.250.000	8.000.000	4.100.000
Canary Islands	900.000	100.000	-
Cape Verde Islands	182.000	5.500	-
Central African Rep.	1.146.000	5.000	-
Ceylon	10.000.000	349.908	-
Chile	7.000.000	700.000	2.000
Colombia	15.000.000	3.000.000	200.000
Comores Islands	183.132	10.000	-
Congo (Franco-African C.)	4.824.000	11.000	-
Congo Rep.	14.000.000	105.000	-
Costa Rica	1.199.116	75.000	5.000
Cuba	6.412.000	1.102.000	505.000
Cyprus	564.000	100.000	3.000
Czechoslovakia	13.650.000	3.613.111	1.000.000
Dahomey	1.780.000	20.000	-
Denmark	4.554.298	1.544.123	649.152
Dominican Rep.	3.013.525	101.558	18.578
Ecuador	4.000.000	175.000	2.000
El Salvador	2.400.000	42.000	25.000
Ethiopia	18.000.000	305.000	-
Faroe Isl.	35.000	7.500	-
Fiji Islands	401.000	30.000	-
Finland	4.484.655	1.269.000	135.000
France	42.777.174	10.682.868	1.800.000
Gabon	440.000	10.000	-
Germany, Federal Rep.	55.257.100	16.114.527	5.489.163
Germany, Dem. Rep.	17.298.165	5.601.400	1.337.900
Ghana	6.500.000	85.000	-
Goa	645.000	8.367	-
Great Britain	50.383.000	15.335.193	11.484.806
Greece	8.000.000	860.857	-
Greenland	32.000	5.000	-
Guadeloupe	250.000	6.500	-
Guatemala	3.800.000	45.000	40.000
Guiana, British	560.620	80.000	-
Guiana, French	25.000	1.100	-
Guinea, Rep.	3.000.000	40.000	-
Guinea, Portug.	547.000	1.788	-
Guinea, Spanish	210.000	1.600	-
Haiti	3.418.333	11.000	2.000
Hawaii	632.772	460.000	155.000
Holland	11.544.000	3.124.475	950.248
Honduras, Brit.	90.000	2.400	-
Honduras, Rep.	2.000.000	50.000	4.500
Hong Kong	3.128.000	130.000	7.000
Hungary	10.000.000	2.208.500	143.308
Iceland	177.000	49.764	-
India	388.000.000	2.000.000	500
Indonesia	92.000.000	1.250.000	-
Iran	20.000.000	934.821	25.000
Iraq	7.000.000	150.000	75.000
Ireland	2.900.000	495.000	75.000
Israel	2.170.082	350.000	-
Italy	51.000.000	8.263.768	2.512.738
Ivory Coast	3.091.000	55.000	-
Jamaica	1.607.000	280.000	-
Japan	93.840.000	11.247.745 ¹	7.579.375 ¹

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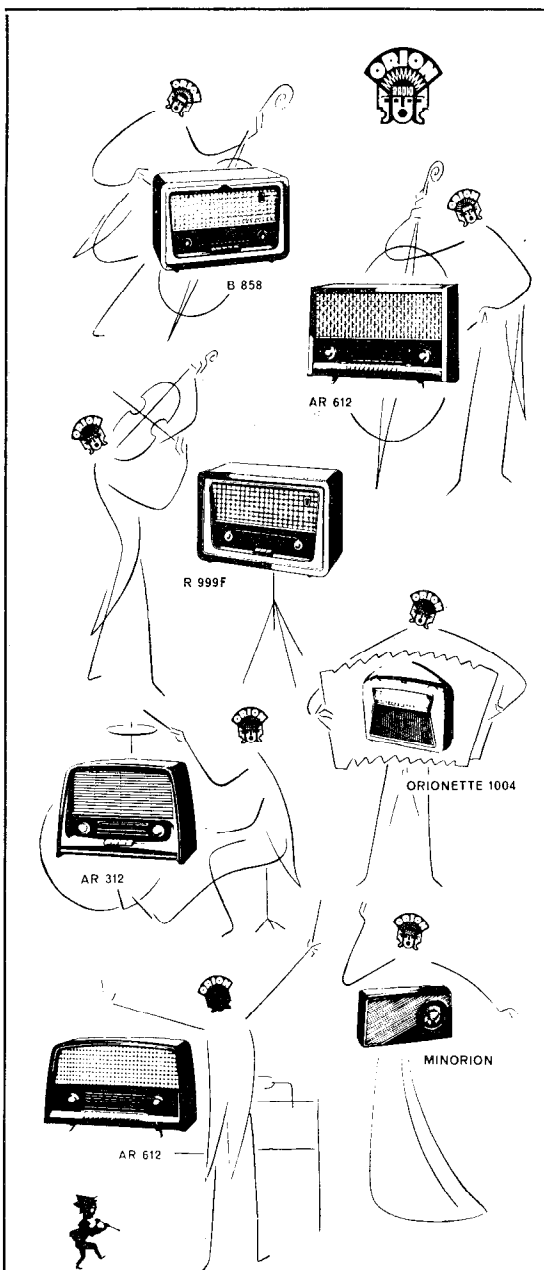
ELEKTROIMPEX

BUDAPEST V., NÁDOR U. 21.
HUNGARY

Telegrams: ELEKTRO BUDAPEST

Country	Po.	R. Revrs	TV. Revrs
Jordan	1.607.000	190.000	-
Kenya	6.540.600	56.794	-
Korea Rep.	22.303.000	830.000	20.000
Kuwait	321.000	100.000	1.000
Laos	3.000.000	15.000	-
Lebanon	1.600.000	85.000	35.000
Leeward Isl.	69.100	3.350	-
Liberia	2.000.000	53.000	-
Libya	1.500.000	400.000	-
Luxembourg	315.000	99.700	10.000
Macau	180.000	10.000	-
Madagascar	5.800.000	120.000	-
Malaya (Feder.)	7.000.000	250.000	-
Mali	3.800.000	10.000	-
Malta	328.900	50.000	8.500
Marianas Isl.	100.000	62.000	40.000
Martinique	260.000	12.000	-
Mauritania	700.000	10.000	-
Mauritius	651.963	42.049	-
Mexico	34.625.000	4.500.000	500.000
Monaco	22.000	5.500	12.000
Morocco	10.000.000	520.000	5.000
Mozambique	6.520.000	100.000	-
Netherl. Ant.	191.768	73.411	7.500
New Caledonia	70.000	6.000	-
New Guinea (Dutch)	734.000	10.000	-
New Zealand	2.414.064	600.000	10.000
Nicaragua	1.333.000	36.000	5.000
Niger	2.425.000	10.000	-
Nigeria	39.000.000	200.000	6.000
Norway	3.500.000	1.070.023	72.000
Pakistan	83.603.000	250.000	-
Panama	1.067.766	56.122	9.240
Paraguay	1.500.000	200.000	-
Peoples Rep. of China	650.000.000	4.500.000	20.000
Peru	13.000.000	2.000.000	71.500
Philippines	27.500.000	1.000.000	45.000
Poland	30.000.000	3.966.332	500.000
Portugal	9.000.000	848.008	46.372
Puerto Rico	2.318.000	1.410.000	180.000
Reunion	360.000	17.000	-
Rhodesia & Nyasaland	8.400.000	200.000	14.000
Ruanda-Urundi	4.700.500	50.000	-
Rumania	18.300.000	2.196.000	68.500
Ryukyu Isl.	882.922	200.000	32.600
Samoa	110.000	5.000	-
Sao Tomé	62.000	8.400	-
Sarawak	750.000	35.000	-
Saudi Arabia	6.000.000	25.000	11.000
Senegal	2.232.500	125.000	-
Sierra Leone	3.000.000	50.000	-
Singapore	1.680.000	121.000	-
Solomon Isl.	124.000	2.500	-
Somaliland, French	75.000	8.000	-
Somali (Republic)	2.150.000	24.000	-
So. Africa	14.200.000	988.000	-
Spain	29.500.000	2.960.535	300.000
Sudan	11.000.000	11.000	-
Surinam	350.000	44.000	-
Sweden	7.498.770	2.796.520	1.180.694
Switzerland	5.411.000	1.467.008	169.324
Syria	4.200.000	550.000	1.000
Tahiti	80.000	17.000	-
Taiwan	10.853.627	763.062	100
Tanganyika	9.076.800	72.232	-
Tchad	2.580.000	8.000	-
Thailand	24.000.000	800.000	60.000
Trinidad	828.000	130.317	100
Togo	1.458.000	4.000	-
Tonga	64.000	1.500	-
Tunisia	4.000.000	200.000	-
Turkey	28.000.000	1.297.378	500
Uganda	6.500.000	90.000	-
United Arab. Rep. (Egypt)	26.000.000	1.705.000	150.000
United States	179.323.175	168.500.000	55.000.000
Upper Volta	3.800.000	12.000	-
Uruguay	3.000.000	1.000.000	43.000
USSR	216.000.000	60.000.000	6.000.000
Venezuela	7.361.703	1.300.000	250.000
Vietnam, Rep.	12.300.000	125.000	-
Virgin Isl.	32.000	7.500	-
Windward Isl.	338.000	20.000	-
Yugoslavia	18.512.000	1.563.213	29.776
Zanzibar	299.500	5.200	-

¹⁾ Units of family



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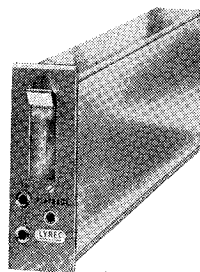
NEWS IN ENGLISH IN THE FOREIGN SERVICES from all stations

Abbreviations: RTB=Radiodiffusion Television Belge - AFRTS=Armed Forces Radio Television Service - VOA=Voice of America - BBC=British Broadcasting Corporation - SBC=Swiss Broadc. Corpo. - AIR=All India Radio - RRI=Radio Republik Indonesia - SABC=South African Broadcasting Corporation - KBS=Korean Broadcasting System. - BCC=Broadcasting Corpo. of China.

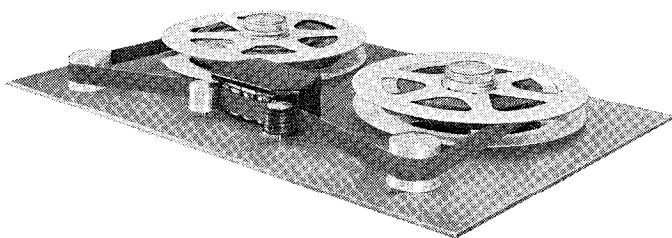
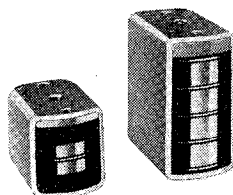
00.00	BBC	04.30	UN Radio	10.00	R. Australia	14.45	RRI	19.15	R. Cairo
00.00	R. Moscow	04.30	AIR	10.00	KBS	14.45	AFRTS	19.30	R. Sofia
00.00	R. Budapest	04.45	UN Radio	10.00	UN Radio	15.00	AFRTS, N.Y.	19.30	R. Nederland
00.00	RTB	05.00	SABC	10.00	AFRTS	15.00	R. Denmark	19.30	R. Warsaw
00.00	R. Luxembourg	05.00	VOA	10.00	VOA	15.00	R. Moscow	19.30	R. Cl.doHuamho
00.00	AFRTS	05.00	BBC	10.01	AIR	15.00	R. Ghana	19.30	R. Brazzaville
00.00	VOA	05.00	R. Prague	10.10	BCC	15.00	R. ELWA	19.30	R. Japan
00.05	R. Norway	05.00	Deutsche Welle	10.25	Deutsche Welle	15.00	R. Peking	19.30	WRUL
00.15	R. Australia	05.00	R. Moscow	10.30	R. Moscow	15.00	R. Japan	19.45	R. Sweden
00.30	AIR	05.00	R. Japan	10.30	R. Thailand	15.00	VOA	19.45	R. Pakistan
00.30	R. Roma	05.00	R. Canada	10.45	R. Roma	15.10	R. Addis Ababa	19.46	AIR
00.30	R. Moscow	05.00	R. Australia	10.45	UN Radio	15.15	R. Australia	20.00	RTF
00.30	R. Pyongyang	05.00	AFRTS	11.00	R. Brazzaville	15.30	R. Canada	20.00	Berlin Intern.
00.30	R. Japan	05.02	Nac. Argentina	11.00	R. Moscow	15.30	R. Belgrade	20.00	AFRTS, N.Y.
01.00	R. Japan	05.05	R. Norway	11.00	R. ELWA	15.30	R. Japan	20.00	R. Budapest
01.00	Deutsche Welle	05.15	R. Australia	11.00	R. Japan	15.35	R. Roma	20.00	R. Moscow
01.00	R. Canada	05.15	R. Nac. España	11.00	R. Australia	15.45	AIR	20.00	R. ELWA
01.00	R. Peking	05.15	R. Brazzaville	11.00	BBC	15.55	Deutsche Welle	20.00	R. Australia
01.00	R. 4VEH	05.25	Deutsche Welle	11.00	AFRTS	16.00	VOA	20.00	BBC
01.00	R. Moscow	05.30	R. Cairo	11.00	VOA	16.00	R. Prague	20.00	R. Ghana
01.00	R. Sofia	05.30	R. Japan	11.00	R. El Mundo	16.00	AFRTS, N.Y.	20.00	R. Damascus
01.00	R. Luxembourg	05.30	R. Cambodge	11.15	SABC	16.00	Berlin Intern.	20.00	VOA
01.00	AFRTS	05.30	KBS	11.15	RRI	16.00	SABC	20.05	R. Sofia
01.00	VOA	05.55	R. Moscow	11.30	R. Malaya	16.00	BBC	20.10	R. Addis Ababa
01.10	BCC	06.00	R. New Zealand	11.45	R. Moscow	16.00	R. Peking	20.15	Israel
01.15	R. Brazzaville	06.00	R. Japan	11.45	Deutsche Welle	16.00	KBS	20.15	R. Denmark
01.30	R. Nederland	06.00	SABC	11.45	UN Radio	16.00	AFRTS	20.15	BBC
01.30	R. Australia	06.00	R. Australia	12.00	R. Australia	16.15	Berlin Intern.	20.20	R. Nac. España
01.30	SBC	06.00	R. Malaya	12.00	R. Norway	16.15	R. Australia	20.25	R. Japan
01.30	UN Radio	06.00	BBC	12.00	R. Warsaw	16.15	R. Addis Ababa	20.30	R. RTB
01.45	R. Sweden	06.00	R. Canada	12.00	R. Moscow	16.30	R. Sofia	20.30	R. Warsaw
02.00	Windward Is. Br.	06.00	AFRTS	12.00	R. Tashkent	16.45	SBC	20.30	R. Peking
02.00	R. Peking	06.00	VOA	12.00	R. Peking	16.45	R. Sweden	20.30	R. Baghdad
02.00	BBC	06.15	R. ELWA	12.00	R. Japan	16.50	Israel	20.44	Israel
02.00	R. Denmark	06.30	R. Moscow	12.00	R. Brazzaville	17.00	AFRTS, N.Y.	20.45	R. Canada
02.00	Deutsche Welle	06.30	R. Pakistan	12.00	R. 4VEH	17.00	R. Canada	20.45	R. Ghana
02.00	R. Moscow	06.30	R. Cairo	12.00	R. Prague	17.00	R. Norway	20.45	R. Iran
02.00	R. Japan	07.00	AFRTS	12.00	AFRTS	17.00	R. Ghana	21.00	SABC
02.00	R. Canada	07.00	R. Nederland	12.00	VOA	17.00	R. Moscow	21.00	R. Australia
02.00	R. Luxembourg	07.00	R. Moscow	12.15	R. Cairo	17.00	R. Peking	21.00	AFRTS, N.Y.
02.00	AFRTS	07.00	R. ELWA	12.25	R. Cambodge	17.00	VOA	21.00	R. Moscow
02.00	VOA	07.00	R. Australia	12.30	R. Sweden	17.15	R. Brazzaville	21.00	VOA
02.05	R. Norway	07.00	SBC	12.30	R. Japan	17.15	R. Australia	21.15	Deutsche Welle
02.30	R. Australia	07.00	BBC	12.30	R. Pyongyang	17.15	SABC	21.30	R. Ghana
02.30	R. Leopoldville	07.00	R. Canada	12.45	SBC	17.30	R. Athens	21.30	R. Sofia
02.30	R. Jordan	07.00	Rangoon	12.45	BBC	17.30	R. Prague	21.30	R. Nederland
02.45	KGEI	07.15	UN Radio	12.45	R. Australia	17.30	UN Radio	21.30	R. Warsaw
03.00	R. El Mundo	07.30	R. Warsaw	13.00	VOA	17.30	BBC	21.30	R. Moscow
03.00	R. Canada	07.30	R. Moscow	13.00	RTF	17.45	R. Sweden	21.30	R. Cairo
03.00	BBC	07.30	R. Japan	13.00	BBC	17.55	R. Roma	21.30	R. Peking
03.00	R. Prague	07.30	KBS	13.00	R. Warsaw	17.55	R. Japan	21.30	WRUL
03.00	R. Moscow	07.30	R. New Zealand	13.00	R. ELWA	18.00	Deutsche Welle	21.30	R. Leopoldville
03.00	R. Peking	08.00	R. Prague	13.00	R. Japan	18.00	Berlin Intern.	21.45	BBC
03.00	R. Japan	08.00	R. Japan	13.00	R. Australia	18.00	R. Cairo	21.45	R. Ankara
03.02	Nac. Argentina	08.00	UN Radio	13.00	AFRTS	18.00	R. Roma	21.45	R. Australia
03.00	AFRTS	08.00	AFRTS	13.15	R. Moscow	18.00	R. Luxembourg	21.50	Israel
03.00	VOA	08.25	Deutsche Welle	13.30	R. Moscow	18.00	R. Maroc.	22.00	Berlin Intern.
03.05	R. Roma	08.30	R. Warsaw	13.30	R. Cairo	18.00	R. Moscow	22.00	R. Budapest
03.15	R. Nac. España	08.30	R. Brazzaville	13.31	AIR	18.00	R. Peking	22.00	R. Warsaw.
03.15	R. Sweden	08.30	R. Peking	13.35	R. Pakistan	18.00	BBC	22.00	R. Moscow
03.25	R. Moscow	08.30	R. Pakistan	13.45	R. Ankara	18.00	VOA	22.00	R. Belgrade
03.30	R. Denmark	08.30	R. Canada	13.45	R. Lisbon	18.10	R. ELWA	22.00	AFRTS, N. Y.
03.30	BBC	08.45	R. Australia	14.00	R. Malaya	18.10	R. Addis Ababa	22.00	KBS
03.30	R. Budapest	08.45	Deutsche Welle	14.00	R. Nederland	18.20	R. Roma	22.00	R. Canada
03.30	R. Moscow	09.00	SABC	14.00	R. Norway	18.30	Deutsche Welle	22.00	R. Sweden
03.45	Deutsche Welle	09.00	VOA	14.00	R. Sweden	18.30	R. Warsaw	22.00	VOA
03.55	R. Moscow	09.00	R. Roma	14.00	R. Tashkent	18.30	R. Moscow	22.30	R. Tirana
04.00	R. Australia	09.00	SBC	14.00	R. Kabul	18.30	R. Belgrade	22.30	R. Moscow
04.00	BBC	09.00	R. Japan	14.00	R. Peking	18.30	R. Ghana	22.40	Deutsche Welle
04.00	R. Sofia	09.00	R. Australia	14.00	R. Australia	18.30	R. Lisbon	22.45	R. Australia
04.00	R. Moscow	09.00	AFRTS	14.00	AFRTS	18.33	R. Canada	23.00	Berlin Intern.
04.00	R. Peking	09.15	BBC	14.00	VOA	18.45	SBC	23.00	R. Nac.
04.00	R. Japan	09.15	R. ELWA	14.10	Deutsche Welle	18.45	R. Pakistan	23.00	Argentina
04.00	R. Canada	09.20	R. Roma	14.15	R. Ghana	18.52	UN Radio	23.00	BBC
04.00	AFRTS	09.30	R. Denmark	14.30	R. Brazzaville	19.00	AFRTS, N.Y.	23.00	KGEI
04.00	VOA	09.30	R. Pakistan	14.30	R. Moscow	19.00	R. Prague	23.00	R. Canada
04.15	R. Nac. España	09.30	R. Peking	14.30	KBS	19.00	R. Peking	23.00	VOA
04.15	SBC	09.30	R. Japan	14.45	Deutsche Welle	19.00	R. Denmark	23.00	Mosow
04.15	R. Japan	09.30	R. New Zealand	14.45	R. Sweden	19.15	Deutsche Welle	23.15	R. Ankara
04.25	R. Thailand	10.00	R. Brazzaville	14.45	SBC	19.15	RRI	23.30	WRUL
04.30	R. Moscow	10.00	R. Japan	14.45	R. Japan	19.15	R. ELWA	23.30	R. Australia

Transistorizing your Studios?

Transistorizing Recording- and Playback Amplifiers to match broadcast specification for vacuum tube amplifiers is a tall order. Lyrec has made it and can supply the amplifiers in cassettes as shown above or built together with transistorized auxiliaries (monitors etc.) in any combination for mono and/or stereo application (MS/XY).



The new master-recorder TR31, shown below, with four fully independent tracks on 1" tape is supplied with all transistorized amplifiers, bias generators, and will fill the great demand for a pre-master tape without loss in signal/noise ratio. Please write for details of these products as well as of our new line of magnetic heads for professional recorders and instrumentation recorders up to 16 tracks on 1" tape.



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CABLES: LYRECORD, COPENHAGEN

TABLE OF THE MOST SUITABLE METRE BANDS

THE LISTENER'S AREA	Local time	GMT (APPROX.)	AREA OF THE TRANSMITTING STATION																										
			NOV. 1961-FEB. 1962								MARCH-APRIL, SEPT.-OCT.								MAY-AUGUST 1962										
			Eu./No.Af.	ME.	N.Am.(E)	N.Am.(W)	So. Am.	C./So.Af.	So.As.	Ea.As.	Aus./NZ.	Eu./N.Af.	ME.	N.Am.(E)	N.Am.(W)	So.Am.	C.Sa.Af.	So.As.	Ea.As.	Au./NZ.	E./No.Af.	ME.	N.Am.(E)	N.Am.(W)	So.Am.	C./S.Af.	So.As.	Ea.As.	Au./NZ.
EUROPE + NO. AFRICA	07	06	31	25	49	31	31	19	16	19	25	31	25	49	25	25	19	19	16	25	31	19	25	19	25	19	16	19	25
	15	14	19	19	13	19	19	13	19	19	25	19	19	16	19	19	16	19	19	25	19	19	16	19	19	16	19	19	25
	21	20	49	41	25	19	25	25	41	31	25	49	41	19	19	25	25	31	31	25	31	31	16	16	19	25	25	25	25
MIDDLE EAST	07	05	31	41	49	49	31	19	16	16	16	31	31	49	31	31	19	16	16	16	19	25	25	19	25	19	16	16	16
	15	13	13	31	13	31	19	13	19	19	25	16	31	16	31	19	16	19	19	25	16	25	16	19	19	16	19	19	25
	21	19	31	49	25	19	19	25	41	31	19	25	49	19	19	19	25	31	31	19	25	41	16	16	19	25	25	25	19
NO. AMERICA (EAST)	07	12	19	16	19	31	25	16	31	31	31	19	16	19	31	25	16	25	25	25	19	16	19	25	25	16	25	25	25
	15	20	25	25	25	16	19	25	25	25	19	19	25	16	19	25	25	25	19	16	16	19	19	19	19	19	19	19	19
	21	02	49	41	49	25	25	25	25	25	19	49	41	49	25	25	25	25	19	25	31	31	19	19	25	19	16	16	16
NO. AMERICA (WEST)	07	13	13	16	19	49	19	31	31	31	31	16	16	19	31	19	25	25	25	25	16	16	19	25	19	19	25	25	25
	15	23	31	31	19	16	19	25	25	19	16	25	25	19	16	19	25	25	19	16	19	19	16	19	19	19	19	19	16
	21	05	49	41	49	31	31	60	25	25	19	49	41	49	31	31	25	19	19	16	25	25	31	19	19	25	19	19	16
SO. AMERICA	07	11	16	16	31	31	31	16	16	31	31	16	16	25	31	31	16	16	31	16	16	19	25	25	16	16	25	25	25
	15	19	19	16	16	19	19	19	31	25	19	19	16	16	19	19	19	25	25	19	16	16	16	19	19	19	19	19	19
	21	01	31	31	25	25	49	25	31	31	19	31	31	25	19	49	25	25	25	19	25	19	19	19	31	25	19	19	19
CENTRAL + SO.AFRICA	07	05	31	31	31	31	49	49	16	19	13	31	31	31	25	31	49	16	19	13	19	19	25	19	25	31	16	19	16
	15	13	13	16	13	31	19	16	16	19	19	13	16	13	31	19	16	16	19	19	16	16	13	25	19	16	16	19	25
	21	19	31	31	16	16	19	60	31	31	25	25	25	13	16	19	60	25	25	25	19	19	13	16	19	49	19	19	19
SOUTH ASIA	07	02	41	41	49	13	31	25	31	19	16	31	31	13	25	25	25	19	16	16	25	25	19	19	25	25	25	19	16
	15	10	13	16	31	31	31	16	19	19	25	13	16	25	31	25	16	19	19	25	16	16	19	25	19	16	19	19	31
	21	16	19	16	19	49	19	25	49	31	31	19	16	16	31	19	19	49	25	31	19	16	16	25	19	19	31	25	31
EAST ASIA	07	23	31	31	25	13	19	25	31	31	19	31	31	19	16	19	25	31	31	19	19	19	16	19	19	16	25	31	19
	15	07	13	19	31	25	25	19	19	19	16	13	19	31	19	25	19	19	16	16	16	19	19	19	19	19	19	19	16
	21	13	19	16	31	49	31	16	25	49	31	16	16	31	31	31	16	25	49	31	16	16	25	31	25	16	25	31	31
AUSTRALIA + N. ZEALAND	07	21	31	31	19	19	19	25	31	31	31	31	31	16	16	19	25	31	31	31	25	25	16	16	19	19	25	25	25
	15	05	31	25	31	25	25	19	16	19	19	25	25	25	19	19	19	16	19	19	19	19	19	16	19	19	19	19	19
	21	11	16	16	31	49	31	25	16	25	31	16	16	25	31	31	25	16	25	31	19	16	25	31	25	16	25	25	25

FOR BEST SHORT-WAVE RECEPTION IN EVERY PART OF THE WORLD AT VARIOUS TIMES OF THE DAY NOVEMBER 1961 TO OCTOBER 1962.

BY ROGER LEGGE, USA. This table takes into account both propagation conditions and transmission schedules. The figures can be regarded only as average figures.

Example: A listener located in the eastern part of No. Am. wishes to hear a station in the So. part of Af. on a Jan. evening (21 local time). By following the horizontal column starting at No. Am., East, on the left until it meets the vertical columns under the area So. Af. Ea. in the section for the months Nov., Feb. on the right, he will come to the figure 25.

Will you help us?

We ask all readers who wish to make a little effort to arouse interest in international listening, and thus a contribution towards furthering the purpose of the WRH: the promotion of understanding between the peoples of the world, to show our brochure to interested friends and acquaintances, or possibly to write to us for some copies for distribution.

These publications will help you to get the best from your receiver and to keep your WORLD RADIO TELEVISION HANDBOOK up to date.

SUMMER SUPPLEMENT TO THE WRH 62

In June/July 1962 we can send you a supplement to the **World Radio Television Handbook** with corrections, including the summer schedules of short wave stations all over the world. In order to be able to estimate the size of circulation, please send your order as early as possible. The price, including postage, will be: Da. Kr. 7.50, £ 0/8/0, \$ 1.25, Sw. Kr. 6.00 or DM. 5.00.

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WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G. M. T.

	Normal clock Time	Sum- mer Time		Normal clock Time	Sum- mer Time		Normal clock Time	Sum- mer Time		Normal clock Time	Sum- mer Time
Aden	+3	+3	Colombia	÷5	÷5	Iraq	+3	+3	Ruanda Urundi	+2	+2
Afghanistan	+4½	+4½	Comores Isl.	+3	+3	Ireland (Eire)	GMT	+1	Rumania	+2	+2
Alaska*	÷8	÷8	Congo, Rep.					¹⁵ / ₁₅ GMT	Ryukyu Isl.	+9	+9
Albania	+1	+1	Leopoldville	+1	+1	Israel	+2	+2	Samoa Isl.	÷11	÷11
Algeria	+1	+1	Elisabethville	+2	+2	Italy	+1	+1	S. Pierre	÷3	÷3
Andorra	+1	+1	Congo (Franco African)	+1	+1	Ivory Coast	GMT	GMT	S. Tomé	GMT	GMT
Angola	+1	+1	Cook Isl.	÷10½	÷10½	Jamaica (W.I.)	÷5	÷5	Sarawak	+8	+8
Argentina	÷3	÷3	Costa Rica	÷6	÷6	Japan	+9	+9	Saudi Arabia	+3	+3
Australia			Cuba (W.I.)	÷5	÷5	Jordan	+2	+2	Senegal	GMT	GMT
a) Victoria			Curacao	÷4½	÷4½	Kenya	+3	+3	Seychelles	+4	+4
New South Wales,			Cyprus	+2	+2	Korea, Rep.	+9	+9	Sierra Leone	GMT	GMT
Queensland,			Czechoslovakia	+1	+1	Korea, P.D.Rep.	+9	+9	Singapore	+7½	+7½
Tasmania,			Dahomey	+1	+1	Kuwait	+3	+3	Solomon Isl.	+11	+11
(Brisbane,			Denmark	+1	+1	Laos	+7	+7	Somali	+3	+3
Melbourne,			Dominican R.	÷5	÷5	Lebanon	+2	+2	So. Africa	+2	+2
Sydney)	+10	+10	Ecuador	÷5	÷5	Leeward Isl.	÷4	÷4	Spain	+1	+1
b) N. Territory			Egypt	+2	+3	Liberia	÷¾	÷¾	Sudan	+2	+2
S. Australia	+9½	+9½			¹ / ₁₆ GMT	Libya	+2	+2	Surinam	÷3½	÷3½
c) W. Australia	+8	+8	El Salvador	÷6	÷6	Luxembourg	+1	+1	Swan Islands	÷6	÷6
Austria	+1	+1	Ethiopia	+3	+3	Macau	+8	+8	Sweden	+1	+1
Azores	÷2	÷1			¹ / ₁₆ GMT	Madagascar	+3	+3	Switzerland	+1	+1
		¹ / ₁₆ GMT	Falkland Islands	÷4	÷4	Madeira	÷1	GMT	Syria	+2	+2
Bahamas	÷5	÷5	Faroe Islands	GMT	GMT			¹ / ₁₆ GMT	Tanganyika	+3	+3
Bahrain	+4	+4	Fiji Islands	+12	+12	Malaya	+7½	+7½	Tahiti	÷10	÷10
Barbados (W.I.)	÷4	÷4	Finland	+2	+2	Mali	GMT	GMT	Tasmania	+10	+10
Bechuanaland	+2	+2	France	+1	+1	Malta	+1	+1	Tchad	+1	+1
Belgium	+1	+1	Gabon	+1	+1	Marshall Isl.	+12	+12	Thailand	+7	+7
Bermuda	÷4	÷4	Germany	+1	+1	Martinique	÷4	÷4	Togo	GMT	GMT
Bolivia	÷4	÷4	Gibraltar	+1	+1	Mauretania	GMT	GMT	Tonga Islands	+13	+13
Borneo, British			Gilbert Isl.	+12	+12	Mauritius	+4	+4	Trinidad (B.W.I.)	÷4	÷4
North	+8	+8	Goa (Port India)	+5½	+5½	Mexico*	÷6	÷6	Tunesia	+1	+1
Brazil			Ghana	GMT	GMT	Monaco	+1	+1	Turkey	+2	+2
a) Eastern and			Great Britain	GMT	+1*	Mongolia (Outer)	+8	+8	Uganda	+3	+3
Coastal.	÷3	÷3			¹ / ₁₆ GMT	Morocco	GMT	GMT	Upper Volta	GMT	GMT
b) Manaus	÷4	÷4	Greece	+2	+2	Mozambique	+2	+2	Uruguay	÷3	÷3
c) Acre	÷5	÷5	Greenland			Nepal	+5.40	+5.40	U.S.S.R.		
Brunei, No.			Thule area	÷4	÷4	Neth. Antilles	÷4½	÷4½	Moscow,		
Borneo	+8	+8	W. Coast exc.			New Caledonia	+11	+11	Leningrad	+3	+3
Bulgaria	+2	+2	Thule	÷3	÷3	New Guinea			Baku	+4	+4
Burma	+6½	+6½	Angmagssalik	÷2	÷2	(Australian)	+10	+10	Sverdlovsk	+5	+5
Cambodia	+7	+7	Guadeloupe	÷4	÷4	New Guinea			Tashkent	+6	+6
Cameroon	+1	+1	Gum	+10	+10	(Dutch)	+9½	+9½	Novosibirsk	+7	+7
Canada		²⁵ / ₁₆ GMT	Guatemala	÷6	÷6	New Hebrides	+11	+11	Irkutsk	+8	+8
a) New Found-			Guiana (British)	÷3¾	÷3¾	New Zealand	+12	+12	Yakutsk	+9	+9
land	÷3½	÷2½	Guiana (Dutch)	÷3½	÷3½	Nicaragua	÷6	÷6	Khabarovsk	+10	+10
b) Atlantic			Guiana (French)	÷4	÷4	Nigeria	+1	+1	Magadan	+11	+11
(Labrador,			Guinea	GMT	GMT	Norfolk Isl.	+11½	+11½	Petrovavlovsk	+12	+12
Nova Scotia,			Guinea (Port.)	÷1	÷1	Norway	+1	+2	Anadyr	+13	+13
Quebec*)	÷4	÷3	Guinea (Sp.)	+1	+1			¹⁵ / ₁₆ GMT	U.S.A.		
c) Eastern			Haiti (W.I.)	÷5	÷5	Pakistan			a) Eastern Zone	÷5	÷4
(Ontario)	÷5	÷4	Hawaii	÷10	÷10	a) West	+5	+5		¹ / ₁₆ GMT	
d) Central			Holland	+1	+1	b) East	+6	+6	b) Central Zone	÷6	÷5
(Manitoba)	÷6	÷5	Honduras (Rep.)	÷6	÷6	Panama	÷5	÷5		¹ / ₁₆ GMT	
e) Mountain			Honduras (Brit.)	÷6	÷6	Papua	+10	+10	c) Mountain Zone	÷7	÷6
(Alberta)	÷7	÷6	Hong Kong	+8	+9	Paraguay	÷4	÷4	d) Pacific Zone	÷8	÷7
f) Pacific (Br.					¹ / ₁₆ GMT	Peru	÷5	÷5		¹ / ₁₆ GMT	
Columbia)	÷8	÷7	Hungary	+1	+1	Philippines	+8	+8	Vatican	+1	+1
g) Yukon	÷9	÷8	Iceland	÷1	GMT	Poland	+1	+2	Venezuela	÷4½	÷4½
Canary Islands	GMT	GMT			³ / ₁₆ GMT	Portugal	GMT	+1	Vietnam (Rep.)	+8	+8
Cape Verde Isl.	÷2	÷2	India	+5½	+5½			¹ / ₁₆ GMT	Vietnam		
Central African			Indonesia			Puert.Rico (W.I.)	÷4	÷4	(Dem. Rep.)	+7	+7
Rep.	+1	+1	a) North Sumatra	+6½	+6½	Reunion	+4	+4	Virgin Isl.	÷4	÷4
Ceylon	+5½	+5½	b) South	-	+7	Rhodesia			Windward Isl.	+4	+4
Chatham Isl.	+12½	+12½	c) Java, Borneo,					¹ / ₁₆ GMT	Yemen	+3	+3
Chile	÷4	÷4	Bali	+7½	+7½	(No. + So.)	+2	+2	Yugoslavia	+1	+1
China			d) Celebes	+8	+8				Zanzibar	+3	+3
Peoples Rep.	+8	+8	e) Molucca Isl.	+8½	+8½						
Taiwan	+8	+9	Iran (Persia)	+3½	+3½						
		¹ / ₁₆ GMT									

* exc. the watch shore and Gaspé regions: 5 h. behind GMT.
 ** Summer Time in Britain starts at 02 hours GMT after the 3rd Sat. in Apr. (or 2nd Sat. if 3rd is Easter weekend) and runs until 02 h. GMT after the first Sat. in Oct.

PICTURES OF THE WORLD

1. Radio New Zealand: The national N. Z. Bellbird (male Bellbird approaching the Nest). The Bellbird provides Radio N. Z. with a distinctive tuning and interval signal. In the 61 edition a photo of the N. Z. Kiwi bird was published by a mistake instead of the Bellbird.

2. Deutsche Welle: From left: Dr. R. J. Böhringer (Carl Schultz): Lernt Deutsch bei der Deutschen Welle - Wolfgang Woytt: Was unsere Hörer wünschen - Erich Winckler: Die neue Schallplatte - Hilde Stallmach: Unter uns gesagt - Christian von Chmielewski: Tagebuch der Heimat. - Frank Barufski: Sprecher des Wunschkonzertes - Horst A. C. Krieger: DX-Program.

3. Radio Sarawak: An ape takes part in a broadcast.

4. Radio Nederland Wereldomroep: A Dutch farmer woman being interviewed.

5. Radio Jamaica: Harry Belafonte wellknown singer and film star interviewed on Radio Jamaica.

6. Saudi Arabia: His Majesty King Saud with President Siku Toure of Guinea.



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SHORT WAVE RADIO CONDITIONS DURING 1962

By T. W. Bennington

Since the ionosphere is produced by the sun its degree of ionisation, and hence its reflecting action on short waves, varies with time of day, with the season of the year and with geographical position. As the reflecting action also depends upon the frequency or wavelength being used (it is less the higher the frequency or the shorter the wavelength) this means that the prevailing ionospheric conditions over any transmission path have to be suited by using the correct frequency or wavelength. If too short a wavelength is used the wave will penetrate the ionosphere altogether, whereas if it is too long heavy ionospheric absorption will occur and the signal will be weakened.

Thus short-wave communication over a given path cannot be conducted upon a fixed wavelength, but the wavelength must from time to time be changed, as day turns to night, or summer turns to winter, for example.

If this were all then things would be fairly simple, for, over a given transmission path the same wavelength would be best at a given time of day and season, in each succeeding year. But there is an additional cause of changes in the ionospheric conditions and that is the long-period change in the activity of the sun itself, which means that its ultra-violet and X-ray radiations are not the same from year to year but vary over an approximately 11-year period. The degree of activity of the sun is evidenced by the number and size of the sunspots which appear

upon it, and these vary from a minimum, through a maximum and back to minimum again in about 11 years, which is the well-known sunspot cycle. Thus the state of the ionosphere, and hence the wavelengths of use for long-distance communication are also subject to 11-year variations due to the sunspot cycle. At sunspot minimum only the longer of the short wavelengths are usable, but at sunspot maximum considerably shorter wavelengths are necessary. All these ionospheric changes – diurnal, seasonal, geographic and those due to the sunspot cycle – must be taken into account in selecting the best wavelength for use over a given transmission path at a given time.

The last sunspot maximum occurred in 1958, and the next minimum is expected sometime during 1964 or 1965 (it is not possible to forecast the future course of sunspot cycles with great accuracy.) So at the present time we are well into a “decreasing” phase of solar activity and consequently the best wavelengths for use are tending to become longer, and the shorter wavelengths to become less and less useful.

It is not possible, in a short article, to deal with the wavelengths which are likely to be best in the near future for transmissions all over the world, but the Table may be helpful in indicating the probable best wavelengths for three directions from Europe, or vice versa, during 1962. For shorter distances in the same directions the next longer wavelengths will probably be best, and during times not shown the best waveband should be one between those given for the nearest times, except during the early morning, when it should be the next longer waveband to those given for the night period.

Circuit	Months	GMT	mb	GMT	mb	GMT	mb
Europe/North America (and vice versa)	Jan./Feb.	00.00–06.00	41	12.00–19.00	16	21.00–23.00	31
	Mar./Apr.	00.00–06.00	41	12.00–21.00	16	21.00–24.00	31
	May/Aug.	00.00–06.00	31	10.00–16.00	19	16.00–23.00	19
	Sep./Oct.	00.00–06.00	49	12.00–21.00	19	21.00–24.00	41
	Nov./Dec.	00.00–06.00	49	12.00–19.00	19	21.00–23.00	41
Europe/South America (and vice versa)	Jan./Feb.	00.00–06.00	31	10.00–18.00	13	20.00–23.00	25
	Mar./Apr.	00.00–06.00	31	10.00–20.00	13	20.00–23.00	25
	May/Aug.	00.00–06.00	25	12.00–20.00	16	22.00–24.00	19
	Sep./Oct.	00.00–06.00	31	10.00–20.00	16	20.00–23.00	25
	Nov./Dec.	00.00–06.00	31	10.00–18.00	16	20.00–23.00	25
Europe/South Africa (and vice versa)	Jan./Feb.	00.00–06.00	31	08.00–17.00	13	20.00–24.00	25
	Mar./Apr.	00.00–06.00	25	07.00–19.00	13	19.00–24.00	25
	May/Aug.	00.00–06.00	31	07.00–19.00	16	19.00–24.00	25
	Sep./Oct.	00.00–06.00	31	07.00–19.00	16	19.00–24.00	25
	Nov./Dec.	00.00–06.00	31	08.00–17.00	16	20.00–24.00	31

DX-PROGRAMMES

AUSTRALIA: “R. Australia”. “Australian DX’ers calling”. Sat. 22.00, Sun.: 05.30, 07.15 (25/3–27/10), 09.00 (29/10–24/3), 13.00, 16.00.
FINLAND: “Finnish Broadcasting Co.” DX-Prgr. First and third Fri. of the month: 16.00, 20.30 (Sept.–May); 1st & 3rd Sat. of the month: 11.30 (May–Sept.).

DENMARK: “Voice of Denmark”: Tues.: 19.00, 20.15; Wed.: 02.00, 03.30; Thurs.: 09.50, 14.50.

GERMANY: “Deutsche Welle”. Every 2nd Mo. in the month 08.00, 11.00, 14.00, 17.15, 18.30, 20.30, 23.45, 01.15, 03.00, 04.15. – “R. Berlin International”. First Mo. of the month at 17.00 (Swedish).

HAITI: Radio 4 VEH: English Sat. 03.00–03.30.

HOLLAND: “R. Nederland”. Tues. 07.12, 14.12, 19.42, 21.42; Wed. 01.42.

JAPAN: “R. Japan”. Fri. 04.45, 06.00, 10.15; Sat. 08.00, 13.00, 14.15, 15.50, 18.15; Tues. 01.05. – “Nihon Shortwave Broadcasting Co.” “DX-News” Sun. 09.25–09.40 (in Japanese only); Tues., Fri. 07.15.

NEW ZEALAND: R. New Zealand. 1st Wed. of the month: 06.40, 10.30.

RUMANIA: R. Bucharest. 2nd and 4th Fri. of the month at 19.00 and 22.30.

SWEDEN: “R. Sweden”. “Sweden calling DX’ers. Every Mo. at 12.30, 14.00, 14.45, 16.15, 17.45, 19.45, 20.30, 23.30, Tues. 01.45, 03.15, as last part of English half hour. Every Wed. in the German broadcast. Also in Spanish (once weekly) and Portuguese (Wed.).

SWITZERLAND: “Swiss Shortwave Service”. Every Fri./Sat. (in all English transmissions): 07.30, 09.30, 13.15, 15.15, 17.15, 19.15, 02.00, 04.45.

USA: W.R.U.L. 3rd Sat. of the month 19.45, 23.15.

ABBREVIATIONS:

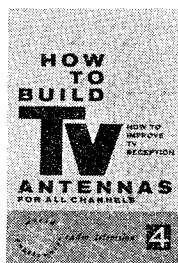
Int. Sig. = Interval Signal
 Addr. = Address
 ABC = Australian Broadc. Comm.
 AC = Alternating electrical current
 AD. = Advertising
 Adm. = Administrator.
 Adv. = Advertisements.
 Af = Africa
 AFN = American Forces Network
 AFRTS = Armed Forces Radio and Television Service
 AIR = All India Radio
 Am = America
 A.M. = Amplitude modulation
 Ann. = Announcement
 Approx. = Approximately
 Apr. = April
 Apt. = Apartado
 As. = Asia
 Asst. = Assistant
 Au. = Australia
 Aug. = August
 Av. = Avenue, Avenida
 BBC. = British Broadc. Corp.
 B.P. = Boite Postale
 BR. = Bayerischer Rundfunk
 C = Central
 Ca. = Calle
 Cal. = California
 Cas. = Casilla
 CBC. = Canadian Broadc. Corp.
 Ch. = Channel
 Ci = Ciudad
 Co. = Congo
 Comm. = Commercial
 Corp. = Corporation
 C.P. = Caixa Postal
 c/s = Cycles per second
 D. = Daily
 d. = Directional aerial
 D.C. = Direct electrical current
 Dec. = December

Def. = Definition
 R. = Radio
 Dept. = Department
 Dep. = Deputy
 Dir. = Director, Direction
 Dir. Gen. = Director General
 DX = Long distance
 E. = English
 Ea. = East
 E. C. = Electric Current
 E. by R. = English by Radio
 Ed. = Edificio
 Emis. = Emissora
 Eng. = Engineer
 Equ. = Equatorial
 ERP = Effective radiated power
 Eu. = Europe
 exc. = Except
 exp. = Experimental
 F. = French
 FCC = Federal Communications Commission
 F.E. = Far East
 Feb. = February
 F.I. = Financing
 Fi. = Finnish
 Fl. = Flemish
 F.M. = Frequency modulation
 F.PI. = Future plans
 For. Rel. = Foreign Relations
 Fri. = Friday
 Freq. = Frequency
 G = German
 G.D.R. = German Democratic Republic
 Gen. Mgr. = General Manager
 G.M.T. = Greenwich Mean Time
 Go. = Government
 Gr. = Greek
 h. = Hour
 H. = Horizontal polarisation
 I. = Italian

Inf. = Information
 Int. = International
 Jan. = January
 kc/s = Kilocycles
 kW = Kilowatt
 L.P. = Leading Personality(ies)
 L = Language
 L.T. = Local Time
 L.N. = Local News
 L.L. = Language Lessons
 LWR = Lutheran World Federation
 Man. = Managing
 M.E. = Middle East (Near East)
 Mgr. = Manager
 Mo. = Monday
 m.b. = Meter band
 Mbg. = Mailbag
 M.W. = Medium Wave
 N. = News
 Nat. = National
 Net. = Network
 N.E. = Near East
 N.H.K. = Nippon Hoso Kyokai
 No. = North
 Nov. = November
 N.Z. = New Zealand
 O. = Owner
 occ. = Occasionally
 Oct. = October
 org. = Organization
 p. = Portuguese
 Pa. = Pacific
 Per. = Period
 Po. = Population
 P.R. = Public Relations
 Pro. = Province
 Prod. = Production
 Pr. = Private
 Pr.L. = Principal Languages
 Pres. = President
 Prgr. = Programme
 Pub. = Publication

QSL = Verification
 Rcvrs. = Number of receivers
 Re. = Report
 Rdif. = Radiodifusora
 Red. = Redifusion
 Reg. = Regional
 Rel. = Relay
 Rep. = Repeat, Repetition
 RIAS = Rundfunk in Am. Sector
 Rp. = Return postage required
 Rus. = Russian
 Sat. = Saturday
 Sce. = Service
 sched. = Schedule
 Secr. = Secretary
 Sep. = September
 So. = South
 So.W. = South West
 Sp. = Spanish, Spain
 St. = Station
 Str. = Street
 Su. = Summer
 Sun. = Sunday
 S.W. = Shortwave
 SWF = Südwestfunk
 Te. = Telephone
 Tec. = Technic
 Thurs. = Thursday
 Tr. = Transmitter, transmission
 Tues. = Tuesday
 T.V. = Television
 UAR = United Arabic Republic
 USSR = Union of the Soviet States - list Republics
 V. = Vertical polarisation
 V. = Verification
 VOA = Voice of America
 W. = Weekdays
 We. = West
 Wed. = Wednesday
 Wi. = Winter
 WI = The West Indies
 Wrp. = Weather report

STANDARD HANDBOOKS ON RADIO AND TV



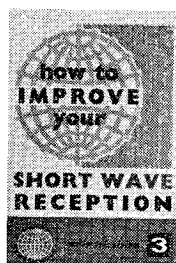
TV and FM ANTENNAS

Describes how to build TV and FM antennas for all channels.
 By F. Rydström, O. Engelstoft and A. Fialla.

Explains all problems connected with TV and FM antennas and TV reception and with "how-to-build" articles dealing with TV and FM antennas for all channels.

Price: Da. Kr. 12.75, £ 0/13/6, \$ 2.-, DM 9.00, Sw. Kr. 9.75 plus postage: Da. Kr. 1.20, £ 0/1/3, \$ 0.20, DM 0.75, Sw. Kr. 0.50. Prices incl. postage: Da. Kr. 14.00, £ 0/14/9, \$ 2.20, DM 9.75, Sw. Kr. 10.25.

By airmail extra cost: Da. Kr. 7.00, £ 0/7/5, \$ 1.00.

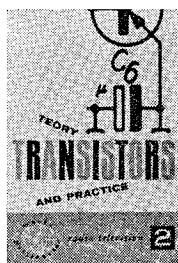


HOW TO IMPROVE YOUR SHORT WAVE RECEPTION

A practical handbook for short wave enthusiasts who wish to know all about short wave reception, the technical aids and means of improving it, and who wish themselves to build short wave receivers or means to improve short wave reception such as an effective short wave antenna, preselector etc.

Prices: Da. Kr. 12.50, £ 0/13/6, \$ 2.00, DM 9.00, Sw. Kr. 9.75 plus postage: As

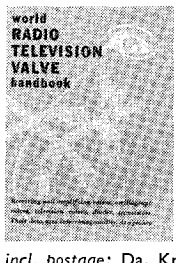
for: How to build TV-antennas. Prices incl. postage: Da. Kr. 13.70, £ 0/14/9, \$ 2.20, DM 9.75, Sw. Kr. 10.25. By airmail extra cost: Da. Kr. 7.00, £ 0/7/5, \$ 1.00.



TRANSISTORS - theory and practice

An up to date and »how to build« handbook, which in an easy understandable manner and in a new way explains the theory and the practical use of transistors.

Prices: Da. Kr. 9.75, £ 0/9/6, \$ 1.50, DM 6.00, Sw. Kr. 7.50 plus postage: Da. Kr. 0.60, £ 0/0/8, \$ 0.10, DM 0.50, Sw. Kr. 0.50. Prices incl. postage: Da. Kr. 10.50, £ 0/10/6, \$ 1.50, DM 6.50, Sw. Kr. 8.00. By airmail extra cost: Da. Kr. 7.00, £ 0/7/5, \$ 1.00.



WORLD RADIO TELEVISION VALVE HANDBOOK

gives at a glance the correct answer to any practical question concerned with all type of valves, crystal diodes, and transistors of any make. Data, replacement or substitute valves, classification, base and pin connections

Prices: Da. Kr. 13.50, £ 0/13/6, \$ 2.00, DM 9.00, Sw. Kr. 10.25 plus postage: As

for: How to build TV-antennas. Prices incl. postage: Da. Kr. 14.70, £ 0/14/9, \$ 2.20, DM 9.75, Sw. Kr. 10.75. By airmail extra cost: Da. Kr. 7.00, £ 0/7/5, \$ 1.00.

Obtainable from: **WORLD PUBLICATIONS** Lindorffs Allé 1, Hellerup, Denmark and the representatives mentioned on page 02 and from booksellers

PICTURES OF THE WORLD

1. Kenya: Tribal meeting in a Kenya village. The great number and variety of tribes is the structure of old Africa and it is still intact with the skin of a new life and institutions hanging only loosely on it (Camera Press, London).

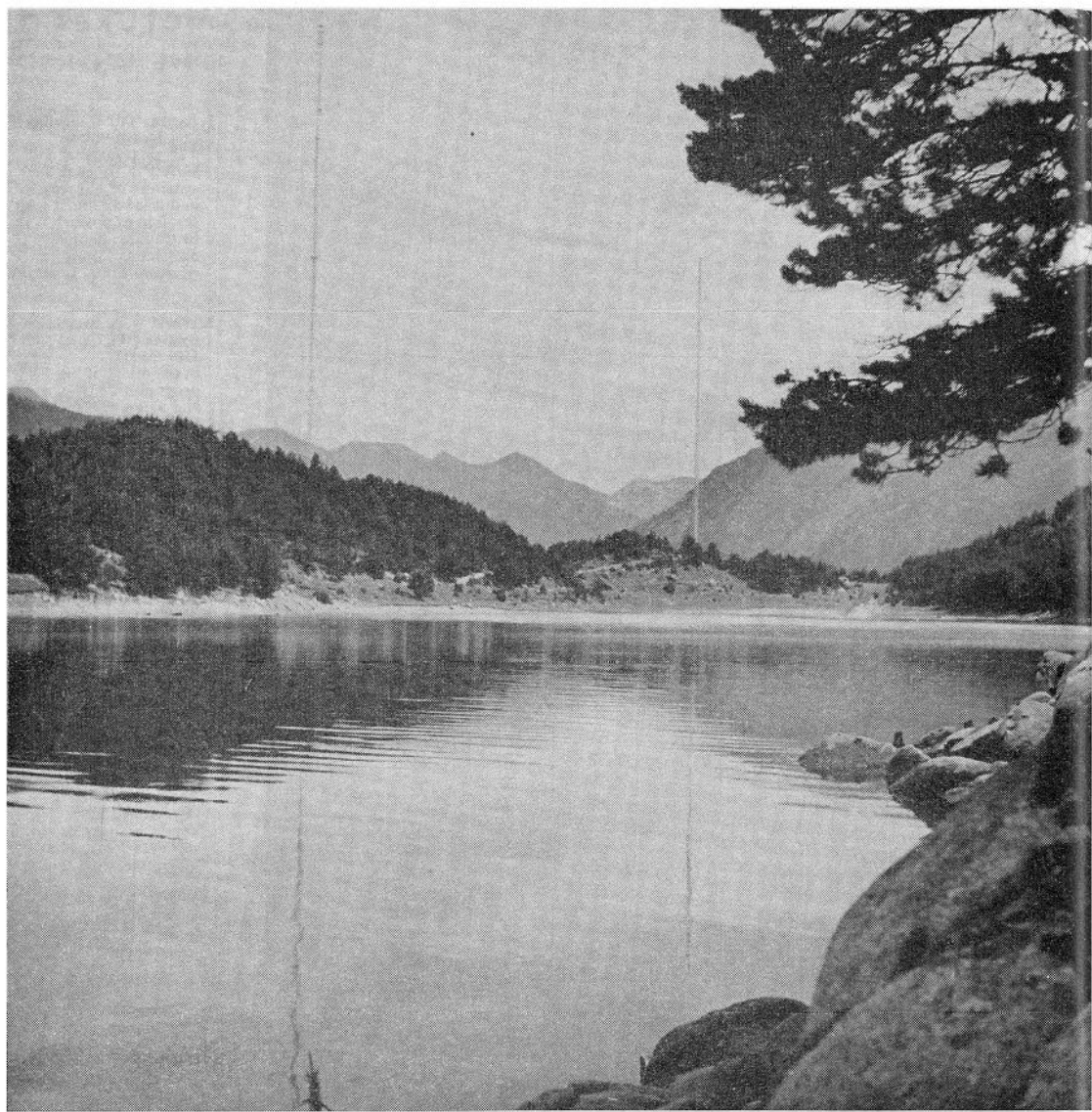
2. World Wide Broadcasting System (WRUL): Hill Edell in the midst of his program of music, news, and views "This World We Live In".

3. Radio Pakistan, Karachi: Fishermens' Dance in East Pakistan.

4. BBC. English by Radio Dept.: The new series of lessons for beginners "English for You". The photo shows some of the Speakers from Asian Versions of the series rehearsing in the studio.

5. Radio Canada: Charles Athapoli (right), Director of Radio Congo, Leopoldville, being interviewed by announcer-producer of the French-language service during a visit to Canada.

3



(PHOTO PEIG, ANDORRE)

Les pylônes et les antennes de RADIO-ANDORRE (300m,60 et 48m,43), les plus hautes d'Europe, sont installés près du Lac d'Engolasters, à 2.000 mètres d'altitude.



EUROPE



★ ALBANIA ★

L.T.: GMT+1 h. - Pr.L.: Albanian. - Po.: 1.625.000. - Rcvrs.: 65.400. - E.C.: 220/380 V., A.C., 50 c/s.

RADIO TIRANA (Go.)

ADDR.: Direction Centrale de la Radiodiffusion d'Albanie, Rue Conference de Peza 3, Tirana. Cable: Albradio, Te.: 2215. L.P.: Dir.: P. Kito. Head, Foreign Relations Dept.: D. Nini.

HOME SERVICE

Tirana 1088 kc/s 275.7 m 50 kW Korça 1349 kc/s 222 m 0.2 kW
Tirana 1358 kc/s 221.0 m

FIRST PRGR.: On 1088 kc/s: W. 04.30-06.30, 11.00-15.00, 16.30-22.00. Sun. 04.30-10.00, 11.00-22.00. - N.: 05.00, 11.30, 13.30, 17.00, 19.00, 21.00.

SECOND PRGR.: On 1358 kc/s: Sat./Sun. only: 18.00-23.00.

FOREIGN SERVICE

1088 kc/s 275.7 m - 7090 kc/s 43.31 m 25 kW - 7850 kc/s 38.20 m 3 kW.

Albanian	kc/s	Greek	kc/s
18.00-18.30	7850	18.30-19.00	7090, 7850
21.30-22.00	7090, 7850	21.00-21.30	7090, 7850
Arabic		Italian	
03.30-05.00	1088	20.30-21.00	7090, 7850
19.00-20.00	7090, 7850	23.00-23.30	1088
22.00-23.00	1088, 7850	Serbo-Croat	
English		16.00-16.30	1088
22.30-23.00	7090	20.00-20.30	7090, 7850

French
22.00-23.00 7090

ANN.: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". E.: "This is R. Tirana calling". F.: "Ici R. Tirana". Greek: "Milun Ta Tirana". I.: "Parla Tirana". Serbo-Croat: "Govori Tirana".

INT.-SIG.: 9 notes played on clarinet. - V. by letter.



★ ANDORRA ★

L.T.: GMT+1 h. - Pr.L.: French, Spanish. - Po.: 7.000. - Rcvrs.: 8.000. - E.C.: 110/120 V., A.C., 50 c/s.

RADIO ANDORRA (Private, Comm.)

ADDR.: Roc des Anelletes, Andorra la Vieille, Principauté d'Andorra.

Cable: "Radioandorra". Te.: 100. -

- L.P.: Dir. Gen.: G. Dahlqvist. Dir. Tec.: A. Koller. Dir. Prgr.: G. Marquet. French Dept.: J. Bonis. Spanish Dept.: F. Torres. Pub. Dept.: A. Garric. Listeners Sec.: C. Ruiz.

HOME SERVICE: 998 kc/s 300.6 m 140 kW: W. 05.45-15.00, 16.30-23.00. Sun. 06.45-23.00. - French: W. 05.45-13.15, 16.30-21.00. Sun. 06.45-13.15, 15.00-21.00. - Spanish: D. 13.15-15.00, 21.00-23.00.

ANN.: F.: "Ici Radio Andorra - Aqui Radio Andorra emisora del principado de Andorra". Sp.: "Aqui Radio Andorra, emisora del principado de Andorra, Roc de la Anelletes, Andorra la Vieja, Principado de Andorra". - INT.-SIG.: Gong low. Open and close with "Hymne National Andorran" and "Marche des Conseillers Andorrans". - V. by QSL-card or letter. Rp. - PUB.: Weekly prgr. sched. and "Aqui Radio Andorra" weekly publication free on request.

INTERNATIONAL SERVICE: Roc des Anelletes, Andorra la Vieille, Principauté d'Andorra. - L.P.: Dir. Gen.: G. Dahlqvist. Dir. Tec.: J. L. Marquet. Dir. Prgr.: M. Brard. French Dept.: J. Tellez. Foreign Dept.: P. Danjon. Pub. Dept.: T. Montserrat-Rodriguez. Listeners Sec.: L. Merinos.

SERVICE: D. 11.00-14.00, 18.00-23.00 in English, French, German, Spanish on 6195 kc/s 48.43 m 25 kW. - ANN.: F.: "Ici Radio Andorra International". E.: "This is Radio Andorra International". Sp.: "Aqui Radio Andorra Internacional emisora del Principado de Andorra". G.: "Hier ist Radio Andorra". - INT.-SIG.: Gong low. Open and close with "Hymne national Andorran" and "Marche des Conseillers Andorrans". - V. by QSL-card or letter.

RADIO DES VALLEES D'ANDORRE S.A. (Comm.)

ADDR.: P. O. Box 7, Andorra la Vieille. Cable: Radioval. Te.: 7.260. - L.P.: Pres. & Adm.: Jean-Paul Colas. Adm. Council: Jean-Paul Colas, J. Cruchon, A. Farrero. Dir. Gen.: C. Delepine. Dir. Prgr.: A. Garcia. Dir. News: M. Vincent. Dir. Tec.: Y. Ramond, Pla-Naudi. **HOME SERVICE:** in French, Spanish Catalan: 05.45-23.30. 18 kc/s 366.8 m 140 kW. - 6305 kc/s 47.58 m 1 kW.

Spanish & French: 13.00-15.00. Catalan: 12.45-13.00 & 20.00-20.05.

Other times French. - N.: French: 06.30 and every h. until 22.30 exc. 12.30, also at 12.00. - "Si tous les gens du monde voulaient se donner la main": Sat. 11.00-12.00 in French, Spanish, Catalan, Danish, Norwegian, Swedish, English & Italian.

INT.-SIG.: Xylophone. - ANN.: F.: "Ici Radio des Vallées d'Andorre" - V. by postcard. - F.P.L.: 400 kW m.w.-tr. autumn 1962.

★ AUSTRIA ★

L.T.: GMT+1 h. - Pr.L.: German. - Po.: 7.010.000. - Rcvrs.: 2.091.594. - E.C.: 110/220 V., A.C., 50 c/s, D.C.

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

FL.: by license payments and adv. - AD.: Prgr. I: 70 min. per day; Prgr. II: 15 min. per day; Prgr. III: 8 h. 53 min. per day. Local: 1 h. 27 min. per day.

ADDR.: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30a. Cable: Rundfunk Wien. Te.: 656661. - L.P.: Dir. Gen., Adm.: J. Scheidl. Vice Dir. Gen., Dir. Tec.: Dipl. Ing. W. Füchsl. Dir. Prgr.: Prof. Dr. A. Uebelhör. Dir. TV: G. Freund.

STUDIOS: R. Graz, Zusetalergasse 14a, Graz III. Cable: Radio Graz. P. Goritschnig. - R. Klagenfurt: Sponheimerstr. 13, Klagenfurt. Cable: Radio Klagenfurt. P. Goritschnig. - R. Linz: Obere Donaulände 1, Linz. Cable: Radio Linz. A. Schwetz. - R. Salzburg: Franziskanergasse 5, Salzburg. Cable: Radio Salzburg. Dr. P. Becker. - R. Tirol: Landhaus Neubau, Innsbruck. Cable: Radio Tirol. Dr. J. Scheidl. - R. Voralberg: Neues Rathaus, Dornbirn. Cable: Radio Voralberg. Dr. W. Tölzer. - R. Wien: Argentinierstr. 30a, Wien IV. Cable: Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

FIRST PRGR.: W.: 04.30-21.00 (Sat. 23.05), Sun. 05.00-21.00.

Medium Waves:	kc/s	m	kW	Salzburg I	kc/s	m	kW
Aldrans	629 476.9	25			773 388	1	
Lauterach I	629 476.9	25		Linz	890 337.1	15	
Lienz I	629 476.9	25		Graz	1394 215.2	25	
Klagenfurt I	728 412.1	25		Wien I	1475 203.4	150	

Low Power M.W. (0.05 kw exc. where indicated):

566 kc/s: Bad Ischl, Feistritz (0.1), Greifenburg*, Maria Pfarr, Mühlbach, Radstadt, Eisenkappel, Neukirchen. - 674 kc/s: Aigen, Bischofs-hofen, Bleiburg, Gloggnitz, Neumarkt, Trieben, Orz, Radenthein* (0.1) - 773 kc/s: Bad St. Leonhard, Hergamoor, Lend, Mariazell, Oberdrauburg. St. Michael/Lungau - 1052 kc/s: Krems, Neunkirchen - 1124 kc/s: Bruck/Mur (0.1), Eisenerz (0.1), Hofgastein, Imst, Judenburg (0.1), Kufstein* (0.015), Mayrhofer, Tamsweg, Gmünd*, Köttschach (0.1), Mürrzschlag (0.1), Villach (0.1) - 1142 kc/s: Rottenmann - 1313 kc/s: Kindberg, Friesach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Haslach, Murau - 1394 kc/s: Admont, Bludenz, Spittal/Drau* (0.2), Zell/Zee (0.2) - 1457 kc/s: Amstetten, Schruns, Wr. Neustadt - 1484 kc/s: St. Pölten (0.2) - 1493 kc/s: Kitzbühel, Landeck, Mittersill, Reutte, Saalfelden, Schwarzwach, Windisgarsten, Wörgl - 1546 kc/s: Bad Aussee, Leoben (0.1) - 1594 kc/s: Brannau, Feldkirchen, Zwettl.

*) operated by the postal adm.

FM	ch, mc/s	kW	ch, mc/s	kW
Hahnbaum I	16 91.8	0.1	Gaisberg I	26 94.8 50
Patscherkofel I	17 92.1	50	Lichtenberg I	27 95.1 50
Stubnerkogel I	17 92.1	0.1	Schöckl I	28 95.4 50
Schmittenhöhe I	18 92.4	0.01	Kahlenberg I	29 95.8 50
Pyramidenkogel I	20 93.0	10	Jauerling I	35 97.5 50
Pfänder I	21 93.3	50	Sonnwendst. I	37 98.1 2.5
H. Kaibling I	24 94.3	4	Mugl I	39 98.7 20
N.: W. 05.45, 06.45, 07.45, 11.30, 16.00, 19.00, 21.00, 22.00. Sun. 05.45, 07.00, 11.30, 16.00, 19.00, 21.00.				

Slovenian (Klagenfurt only): Sun. 06.30-07.00, Mo.-Fri. 13.15-14.00, Mo. 17.00-17.15, Sat. 08.00-09.00. - Exchange Prgr. for "Hessischer Rundfunk": Tues., Thurs. 15.00-16.00. - D. 5 h. local prgr.'s produced by each studio.

ANN.: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio... (name of studio) hören Sie..." - INT.-SIG.: Extract from ballet-music from "Rosamunde" by Franz Schubert.



SECOND PRGR.: W. 04.30-23.05. Sun. 05.00-23.05.

Medium Waves:	kc/s	m	kW	Wien II	kc/s	m	kW
Aldrans II	520 576.9	10			584 513.7	150	
Lienz II	520 576.9	10		Dobl	1025 292.7	100	
Klagenfurt II	584 513.7	25		Kronstorf	1025 292.7	100	
Salzburg II	584 513.7	10		Lauterach II	1025 292.7	10	
				Kitzbühel II	1025 292.7	0.05	

Austria - Belgium

FM:	ch.	me/s	kW	ch.	me/s	kW
Mugl II	2	87.6	20	Stubnerkogel II	31	96.3 0.1
Schöckl II	7	89.2	1.2	Patscherkogel II	32	96.5 15
Gaisberg II	12	90.7	5	Hahnbaum II	34	97.2 0.1
Kahlenberg II	16	91.9	1.2	Pfänder II	45	100.5 2
Jauerling II	24	94.3	15	Lichtenberg II	48	101.4 1.2
H. Kaibling II	31	96.3	4			

N.: W. 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00, 23.00.
Sun. 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 23.00.

Exchange Prgr. for Paris and Canada "An der schönen blauen Donau":
Sun. 19.45-20.15; for Paris "Seine-Donau" or for BBC "Themse-Donau": Wed. 20.10-20.40. Two way exch. prgr. with RAI (Halle Rom, Halle Wien): Wed. 22.10 once a month.

ANN.: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie...". - INT.-SIG.: Extract from Opera "Die Zauberflöte" by W.A.Mozart.



THIRD PRGR.: D. 18.30-21.00. Raley from second prgr. until 18.30, light or serious music only.

FM:	ch.	me/s	kW	ch.	me/s	kW
Hahnbaum III	4	88.2	0.1	Pfänder	9	89.7 50
Sonnwendstein II	4	88.2	2.5	Mugl III	9	89.7 20
Patscherkogel III	5	88.5	50	Schöckl III	14	91.2 50
Stubnerkogel III	5	88.5	0.1	Pyramidenkogel II	36	97.8 10
H. Kaibling III	5	88.5	4	Gaisberg III	40	99.0 50
Jauerling III	6	88.8	50	Lichtenberg II	41	99.3 50
Schmittenhöhe II	6	88.8	0.01	Kahlenberg III	43	99.9 50

ANN.: "Hier ist der Österreichische Rundfunk, Drittes Programm, von Radio... (name of studio) hören Sie...". - INT.-SIG.: Extract from G-major Symphony with the kettle drum beats by Joseph Haydn.



PUB.: "Radio Österreich", weekly prgr. sched. Four times a year: "Aus dem Programm" - free on request.

SHORT WAVES: Test prgr.: Powers 1/50 kW:

A=Aldrans; DA=Deutsch Altenburg; K=Kronstorf; M=Moosbrunn; F=Fleckendorf; I=Europe; II=No. America; III=Near East; IV=So. America; V=No. Africa; VI=Japan; VII=India; VIII=So. Africa; IX=Australia.

Call	Name	kc/s	m	Times	Areas
OEI20	A	6000	50.00	04.30-24.00	I
OEI21	DA	6155	48.74	23.00-04.00	II
	K			04.30-08.00	I
	M			08.00-11.00	I
	M			11.00-16.30	I
	K			16.30-19.30	
	M			19.30-22.00	I
OEI34	M	7105	42.22	16.30-19.30	I
OEI31	M	7200	41.67	06.00-08.00	I+III
	K			08.00-11.00	I+III
	M			11.00-14.00	I+III
	K			14.00-16.30	I+III
OEI49	M	9525	31.50	22.00-04.00	IV
OEI42	F	9610	31.22	06.00-09.00	III
OEI47	F	9770	30.71	00.00-04.00	II
	M			11.00-12.00	I+III
	M			12.00-14.00	I+III
	M			14.00-16.30	I+III
OEI52	M	11785	25.46	08.00-11.00	V+III
	K			11.00-14.00	V+III
	M			14.00-16.30	V+III
OEI64	M	15305	19.60	06.30-08.00	VI
OEI75	M	17850	16.81	14.00-15.00	VII
	M			15.00-16.00	VII
OEI76	M	17865	16.80	13.00-15.00	VIII
	M			15.00-16.30	VIII
	M			16.30-18.00	VIII
OEI80	M	21540	13.93	10.00-11.00	IX
	M			11.00-12.00	IX

V. by QSL-card or letter.

★ AZORES (Portuguese) ★

L.T.: GMT+2 h. (Su.+1 h.). - Pr.L.: Portuguese. - Po.: 350.000.
Rcvrs.: 5.059 - E.C.: 110/220 V., A.C.50 c/s.

EMISSION REGIONAL DOS AÇORES (Go.)

ADDR.: Av. Gaspar Frutuoso, Ponta Delgada, S. Miguel. Te. 22624

HOME SERVICE: CSA97 4865 kc/s 61.66 m 1 kW.

14.00-15.00, 20.00-24.00. N.: 14.30, 22.30.

ANN.: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Açores da Emissora Nacional". - INT.-SIG.: Chimes. - V. by letter or QSL-card.

RADIO CLUB DE ANGRA (Comm.)

FL.: By adv. - ADDR.: Rua Conselheiro Anastacio de Bettencourt, Angra do Heroísmo, Ilha Terceira. Te.: 219. - L.P.: Pres.: A. Monjardino. Dir. Tec.: J. E. L. Fernandes.

HOME SERVICE: CSB80 1394 kc/s 215.2 m 1 kW: W. 08.00-10.00, 12.00-14.00, 18.00-23.00. Sun. 08.00-14.00, 18.00-23.00. - ANN.: "Aqui estação CSB80 do Rádio Club de Angra (A Voz da Terceira)".

EMISSIONA DO CLUBE ASAS DO ATLÂNTICO (Comm.)

FL.: By adv. - ADDR.: Aeroporto de Santa Maria. Te.: 285. - L.P.: Dir. Tec.: A. França.

HOME SERVICE: CSB81 1571 kc/s 191 m 1 kW: 11.00-15.00, 18.00-24.00. N.: 12.00, 20.00, 21.00 - Wrp.: 13.00, 15.00, 18.00, 24.00.

ANN.: "Aqui Santa Maria, Fala a Estação Emissora do Clube Asas do Atlantico". - INT.-SIG.: Opens with music played on a Portuguese string instrument (viola) and guitar. - V. by postcard. - F.PL. 10 W and change of freq.

ARMED FORCES RADIO TELEVISION SCE.: see USA.

★ BELGIUM ★

L.T.: GMT+1 h. - Pr.L.: French, Flemish, German. - Po.: 9.220.000
Rcvrs.: 2.758.362 (31/12 60). - E.C.: 110/220 V., A.C. (D.C. 110) 50 c/s.

RADIODIFFUSION-TELEVISION BELGE (R.T.B.) -
BELGISCHE RADIO EN TELEVISIE -

(Belgian Broadcasting and Television) (Go.)

FL.: By state grant-in-aids. - ADDR.: Place Eugène Flagey 18 Bruxelles 5. Cable: INR Bruxelles. Te.: 48.81.00.

L.P.: Emissions françaises: Dir. Gen.: R. Wangermée. Prgr. Dir.: M Hankard. Prgr. Dir. (TV): L. P. Kammans. Nederlandse uitzendingen Dir. Gen.: P. Vandenbussche. Prgr. Dir.: C. Mertens. Prgr. Dir. (TV) B. Janssens. Services Communis. Gemeenschappelijke diensten (commun. sce.s): Tec. Dir. Gen.: F. Mortiaux. Chief Eng.: G. Gourski. Adm. & Finance: Dir. Gen.: F. Hoosemans. International Sces. and Intern. Rel.: Exec. Dir.: F. Zoete. Dir.: L. Wallenborn. German Prgr.: Head Mns. I. Janetzky

HOME SERVICE:

FRENCH NETWORK

Bruxelles I (Nat.) 620 kc/s 483.9 m 150 kW (Wavre)
Bruxelles IV (Reg.) 1124 - 266.9 - 10 - (Aye, Houdeng)*
1484 - 202.2 - 5 - (Liège)*

FM

Anlier (Nat.) 91.5mc/s 10 kW Bruxelles(3.prgr.) 95.4mc/s 2 kW
Houdeng (Reg.) 87.6 - 50 - * Houdeng(3.prgr.) 96.1 - 10 -
Ougrée (Reg.) 90.6 - 50 - * Liège (3.prgr.) 99.05 - 10 -
Anlier (Reg.) 97.7 - 10 - *

* Prgr.'s from studios in Mons, Namur, Liège.

620 kc/s (rel. on FM 91.5 mc/s):

W. 05.30-22.00(Sat. 23.00) Sun. 05.30-23.00.

N., Wrp.: 05.30, 06.00, 07.00, 08.00, 09.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.30, 21.00, 21.55. Sat., Sun. 22.55. - Wrp.: 10.50.

1124 kc/s (rel. on FM 87.6 mc/s, 90.6 mc/s, 97.7 mc/s):

09.00-14.30, 17.00-22.00.

Symphony Concert: Tues. 19.00-21.00.

FLEMISH NETWORK

Brussels II (Nat.) 926 kc/s 324.0 m 150 kW (Wavre)
Brussels III (Reg.) 1484 - 202.2 - 0.5 kW (Kortrijk)*
1511 - 198.5 - 20 kW (Veltem)*

FM

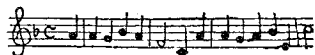
Aalter (Nat.) 98.7 mc/s 10 kW
Veltem (Reg.) 91.2 - 50 - *)
Genk (Reg.) 92.1 - 10 - *)
Aalter (Reg.) 93.0 - 50 - *)
Veltem (3.prgr.) 94.7 - 10 -
Aalter (3.prgr.) 95.7 - 10 -

*) Prgr. from studios in Kortrijk, Ghent, Antwerp and Hasselt.

926 kc/s (rel. on FM 98.7 mc/s):
W.: 05.30–22.00 (Sat. 23.00), Sun. 05.30–23.00. – N., Wrp.: 05.30, 06.00, 07.00, 08.00, 11.30, 12.00, 16.00, 18.00, 21.00, 21.55, Sat., Sun. 22.00. – Wrp.: 05.30, 07.00, 11.30.
1511 kc/s (rel. on FM 93.0 mc/s, 92.1 mc/s, 91.2 mc/s):
09.00–13.00, 16.00–22.00.
Symphony Concert: Fri. 19.00–21.00.
German Prgr.: FM-Ougrée: 94.2 mc/s 10 kW.
D. 16.00–18.00 or 17.00–19.00 varied prgr. and N.
ANN.: F.: “Radiodiffusion-Télévision Belge”. – Fl.: “Belgische Radio en Televisie”. – G.: “Belgischer Fernseh-Rundfunk”. INT.-SIG.: F. Network: Extract from Greta’s famous melody “Ou peut-on être mieux”.



Fl. Network: The first movement of “Beiaarlied” (Extract from Rubens’ cantata by Peter Benoit).



V. by QSL-card or letter. – PUB.: “De Radio and Televisieweek” (weekly).

INTERNATIONAL SERVICE

ADDR.: Direction of International Services and International Relations of R.T.B./B.R.T., 18, place Eugène Flagey, Brussels 5, (for listeners and QSL-cards: Box 26, Brussels 1). Cable: INR Mondial Brussels. Te.: 48.81.00. – L.P.: Exec. Dir.: F. Zoete. Dir. Intern. Rel.: L. Wallenborn. Heads: News: J. Vandenbranden and J. Mertens. Transcription & Public Rel.: M. Swaenepoel.

STATIONS: ORU Wavre, ORU3/ORU4=100 kW. ORU5=20 kW.
kc/s m kc/s m kc/s m kc/s m
6000 50.00 11720 25.60 15435 19.44 21510 13.94
6140 48.86 11850 25.32 17845 16.81 21715 13.81
9705 30.91 15335 19.56 17860 16.80 21725 13.80
9745 30.78

Abbreviations: A)=French/Flemish; B)=French/Flemish/Congolese; C)=French/Flemish/Congolese/English; D)=French/Flemish/English; I=Africa; II=No. America; III=So. America; IV=So. Europe; V=Far East.

Time	L.	Ar.	5/11–5/3 m.b.	5/3–6/5 m.b.	6/5–2/9 m.b.	2/9–4/11 m.b.
05.00–05.45	A	I	50–31–25	50–49–31	31–31–25	50–49–31
06.00–07.00	A	I	50–31–25	31–19–25	31–31–25	31–19–25
10.00–12.00	B	I	16–13–13	16–13–13	19–16–25	16–13–13
			{V 16	16	19	16 a)
12.15–13.00	A	{IV 25	16	25	16	a)
		{I 13	16	13	13	a)
13.30–15.45	B	I	19–16–16	19–13–13	19–16–25	16–13–13b)
		{I 19	16	16	16	a)
16.00–16.45	A	{II 19	19	19	19	a)
		{III 25	16	25	16	a)
17.00–21.00	C	I	31–31–25	31–31–25	31–19–25	31–31–25
		{II 49	25	25	25	c)
21.15–23.00	A	{III 25	25	31	25	c)
		{IV 50	50	31	50	c)
23.15–01.00	D	I	31–31	50–31	31–31	50–31 c)
		{II 49	31	25	31	d)

*) Sat., Sun. only – a) For missionaries and seamen (alternatively in French and Flemish) – b) Sat. (Congolese) Sun. (sport) – c) For Belgian seamen and Belgians in the world (altern. F. and Fl.) – d) Every day, N. in English: 00.00–00.15 – Flemish prgr.: 00.15–01.00 (Mo. & Fri.). Every day exc. Mo, Fri. in English 00.00–01.00–e) Every day in English 20.15–20.50 – Mailbag: Sat. 20.45 and 00.30. – ANN.: F.: “Ici Bruxelles, Radiodiffusion-Télévision Belge, Emissions Mondiales”. Fl.: “Hier is Brussel, de Belgische Radio en Televisie, Wereldomroep”. E.: “This is Brussels, the Belgian Radio and Television, Overseas Service station ORU”. – SIGNALS: Starting: Xylophone. – INT.-SIG.: Gevaerts “Vers l’avenir”. The signal at the start of each broadcast: “Ou peut-on être mieux” – Closing: Belgian National Anthem. – V. by QSL-card.

★ BULGARIA ★

L.T.: GMT+2 h. – Pr.L.: Bulgarian. – Po.: 7.629.254. – Rcvrs.: 1.581.786. – E.C.: 150/220 V., A.C., 50 c/s.

BULGARIAN BROADCASTING SERVICE (Go.)

Fl.: By state. AD.: 30 min. per day.

ADDR.: Bulgarian Broadcasting at the Ministry of Education and

Culture, 4 Dragan Zankov Str., Sofia. Cable: Bolgarradio. Te.: 7.10.44. L.P.: Dir. Gen.: N. Ganchovsky. Dir. Tec.: J. Jerkov.

HOME SERVICE:

	kc/s	m	kW	kc/s	m	kW
Sofia II	593	506	60	Stara Zagora	1223	235 20
Sofia I	827	362.7	100	Pavlovo	1484	202 2
Varna	1124	267	5	Sofia III	7670	39.11 50
03.25–08.37 on 593, 1124, 1223, 1484 kc/s.						
08.37–09.55 on 827, 7670 kc/s.						
09.55–14.55 on 593, 827, 1124, 1223, 7670 kc/s.						
14.55–20.30 on 593, 1484 kc/s.						
20.30–22.00 on 593, 1124, 1223, 1484 kc/s.						
N.: 03.30, 04.30, 08.30, 10.30, 14.00, 16.00, 18.30, 20.30, 21.45. – Wrp.: 03.40, 10.45, 18.45. – Folklore Music: Mostly at 04.00–07.00, 10.00–12.00, 17.00–19.00.						

FOREIGN SERVICE:

	593 kc/s	506.0 m	60 kW	7255 kc/s	41.35 m	120 kW
827	–	362.7	–	100	–	7670
1124	–	267	–	5	–	9560
1223	–	245	–	20	–	9700
6070	–	49.92	–	120	–	11850
6170	–	48.62	–	50	–	15330
						17800
						16.85
						100

TO EUROPE & M. EAST

Arabic	kc/s
11.30–11.55	9700, 11850, 15330
17.00–17.55	7255, 9700, 11850
19.30–20.00	6170, 7670, 9560

Bulgarian

12.30–12.40	9700, 11850
22.15–22.25	7255, 9700

English

19.30–20.00	9700
21.30–22.00	6070, 9700,
23.35–00.30	9700 (music)

Esperanto

19.00–19.25	6170, 7670
22.30–22.55	7255, 11850

French

18.30–18.55	6070, 9700
21.00–21.30	6070, 9700

German

20.00–20.55	6070, 7255
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Greek

06.00–06.30	6070, 7670
12.00–12.25	6070, 7255, 9700
16.00–16.30	6070, 7255, 9700
19.00–19.30	6170, 7670
20.30–21.00	827, 6170, 7670

Italian

18.00–18.25	6070, 7255
20.00–20.30	6170, 7670
21.00–21.30	6170, 7670
22.00–22.30	827

Macedonian

04.30–05.00	827, 6070, 7670
21.00–21.30	827

Serbo-Croatian

05.00–05.30	827, 6070, 7670
06.30–08.30	827, 6070, 7670
19.00–19.25	6070, 7255
21.30–22.00	827, 6170, 7670

Spanish

21.30–22.00	9560
22.30–23.00	7255, 9700, 11850

Turkish

05.30–06.00	827, 1124, 6070,
	7670
15.30–16.00	6070, 7255
16.30–16.55	6070, 7255,
18.30–19.00	6170, 7670

TO AFRICA

English	kc/s
16.30–16.55	15330, 17800
20.05–20.30	11850, 15330
French	
18.00–18.25	15330, 17800
20.30–20.55	11850, 15330

NO. AMERICAN SERVICE

Bulgarian	kc/s
00.30–01.00	9700
English	
23.35–00.30	9700 (music)
01.00–01.30	9700
04.00–04.30	9700

SO. AMERICAN SERVICE

Bulgarian	kc/s
23.00–23.30	9700, 11850
00.30–01.00	9560, 11850

1) also F. No. America – 2) Sun. only – 3) not Sun. – 4) exc. Sat. – 5) also for Europe.

ANN.: Home Sec.: “Govori Sofia”. – Foreign Sec.: E.: “This is Sofia Bulgaria calling”. – F.: “Ici Sofia, Radiodiffusion Bulgare”. – Tu.: “Bursi Sofia radiosou”. – Gr.: “Milai i Sofia”. – G.: “Hier spricht Sofia Bulgarien”. – I.: “Qui è Radio Sofia”. – Arabic: “Huna Sofia”. INT.-SIG.: The beginning of a Bulgarian song, which begins with the words “Dear Homeland”:



V. by QSL-card or letter. – PUB.: Prgr. sched. free on request.

Czechoslovakia - Denmark

★ CZECHOSLOVAKIA ★

L.T.: GMT+1 h. - Pr.L.: Czech, Slovak. - Po.: 13.650.000. - Rcvrs.: 3.613.111 (30/8/61). - E.C.: 110/220/380 V., A.C., 50 c/s.

ČESKOSLOVENSKÝ ROZHLAS (Go.)

Fl.: By license payments. - AD.: Mo. 17.40, Wed. 16.00, Sat. 21.55. - ADDR.: Czechoslovak Radio, Praha 2, Stalinova 12. Cable: Radiopraha. Te.: 232151. - L.P.: Dir. Gen.: K. Hoffmann. Dep. Dir. Gen. and Dir. R. Bratislava: J. Riečan. Dep. Dir. Gen./Prgrs.: Dr. J. Kolář. Dep. Dir. Gen. Foreign Sec.: B. Švec. Dep. Dir. Gen. Engineering: M. Junek. Dep. Dir. Gen. Adm.: Dr. J. Janoušek. Dir. of Reg. Broadcast: K. Zavdil. Head of For. Rel.: Karol Reif.

HOME SERVICE: Medium Waves

Name	kc/s	m	kW	Name	kc/s	m	kW
CS I	272	1102.9	200	CS I	1286	233.3	100
Praha	638	470.2	150	Praha	1484	202.2	2
Bratislava	701	427.2	100	CS I	1484	202.2	2
Praha	953	314.7	100	Bratislava	1484	202.2	2
Praha	953	314.7	15	CS I	1520	197.3	1
Bratislava	1097	273.5	150	Praha	1594	188.0	2
Bratislava	1232	243.5	100				

FM

Name	kc/s	m	kW	Name	kc/s	m	kW
Praha	66.66	mc/s	1 kW	Mid. Moravia	69.86	mc/s	1 kW
East Bohemia	69.35	-	1 -	East	69.08	-	1 -
No.	70.58	-	4 -	We. Slovakia	68.84	-	1 -
We.	69.56	-	1 -	Mid.	69.68	-	1 -
So.	68.39	-	1 -	East	68.87	-	1 -

CS: In Czech, Slovak: 03.30 (Sun. 05.00)-23.00.

N., Wrp.: W.: 03.30, 04.30, 05.30, 06.30, 08.30, 11.30, 15.00, 17.30, 20.00, 21.00, 22.55. Sun.: 06.00, 07.45, 12.00, 17.30, 20.00, 21.00, 22.55. - L.L.: Russian: Wed. 09.30-09.45.

PRAHA: In Czech: 03.30 (Sun. 05.00)-01.00.

N., Wrp.: W.: 03.30, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.55, 00.55. Sun.: 05.00, 06.45, 11.05, 18.00, 21.30, 22.55, 00.55. - L.L.: Russian: Wed. 14.45-15.00. - Night Concerts (with multilingual ann.): W. 21.50-22.55 (exc. Mo.).

On 1520/1286 kc/s: Bulgarian: Sat. 11.45-12.15, 16.30-17.00.

On 1520/1594 kc/s: Polish: W. 16.50-17.00, Wed. also 10.35-11.00.

On 701/1484 kc/s: German: W. 16.00-16.15, Sun. 08.00-09.00.

BRATISLAVA: N., Wrp.: 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.30, 22.55. - L.L.: Russian: Thurs. 15.00-15.15. - Hungarian: Mo.-Fri. 06.00-06.15, 06.50-07.00, 11.00-13.00; Sat. 06.00-06.15, 06.50-07.00, 11.00-15.00; Sun. 07.00-15.00. - Ukrainian: Mo.-Fri. 06.15-06.25, 15.00-15.30, on Fri. also 09.00-09.35; Sat. 06.15-06.25, 13.00-14.00; Sun. 06.30-06.45, 15.00-16.00.

INT.-SIG.: HOME SCE :

PRAHA: The two opening bars of Smetana's symphonic Poem "Všehrad"



ČS: Fanfares from a March by V. Dobías.



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE

100 kW exc. 1097 kc/s 150 kW. Valid from 5/11 61.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
1097	273.5	7130	42.08	9550	31.41	11990	25.02
1286	233.3	7235	41.47	11725	25.59	15285	19.63
5930	50.57	7345	40.85	11745	25.54	15448	19.42
6055	49.55	9505	31.56	11990	25.02	17755	16.90

EUROPEAN SERVICE:

English	m.b.
12.00-12.25	31, 25, 19
19.00-19.27	49, 31
22.00-22.30	233
23.05-23.30	273

French

11.15-11.45	31, 25, 19
20.30-21.00	233
21.30-22.00	233

German

09.00-10.30	41, 31
18.00-18.30	233
19.00-19.30	233
20.00-20.30	233

German for Austria

10.30-11.10	41, 31
16.00-16.25	49, 41
17.15-18.00	233

Greek

17.30-17.55	49, 31
20.30-20.57	49, 31

Italian

17.00-17.27	49, 31
18.30-19.00	233
21.30-21.57	49, 41

Portuguese

23.30-00.00	233
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Serbo/Croat

09.30-10.00	*41, 31, 25
15.30-16.00	49, 41
18.00-18.30	49, 31

*) Sun. only.

Spanish

13.00-13.30	25, 19, 16, 13
22.00-22.25	49, 41, 31, 25
23.00-23.30	1286

Swedish

10.00-10.30	41, 31, 25
16.30-17.00	49, 31
18.30-18.57	49, 31

Prgrs for Radioamateurs and SWL's:

English (to No. America and the Pacific): On alternate Thurs. (repeated Sun.) at 10.00 and 00.00 h. EST. The repeat for Far East and Australia is heard on alternate Fri. (Mo.) at 08.00 h. English (to Europe): Every first Mo. of the month at 19.00 h. German: Irregularly in the "Hobby Sending" heard every Thurs. at 17.15 for Austria and at 19.00 for Germany.

ANN : E : "This is Prague". - Arabic: "Huna Pragh". - F : "Ici Prague, Tchecoslovaquie". - I : "Qui Praga, Cecoslovacchia". - G : "Hier spricht Prag". - Greek: "Edo Praga". - Yugoslavian: "Govori Prag". - Sp : "Aqui Radio Praga, Checoslovaquia". - P : "Aqui fala a Radio Praga". - Swedish: "Här är Prag". - Czech/Slovak: "Posloucháte Prahu, vysílání Čs. rozhlasu po krajany". - INT - SIG : The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



Ku - předu, le - vá, ku - předu, le - vá, zpá - ťky ni krok!

V. by QSL-card or letter. - PUB : Weekly: Československý rozhlas a televize". Weekly: Prgr.-sched. in English and Russian. Foreign Sec. sched. free on request. Every fortnight: "Rozhlasová práce".

★ DENMARK ★

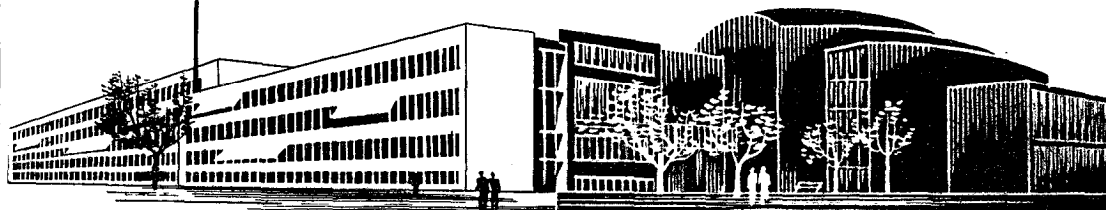
L.T.: GMT+1 h. - Pr.L.: Danish. - Po.: 4.554.298. - Rcvrs.: 1.544.123 - E.C.: 220 V., A.C., 50 c/s, D.C.

RADIO DENMARK (Go.)

Fl.: By license payments. - ADDR.: Radio Denmark, Radiohuset, Rosenørnsallé 22, Copenhagen. Cable: Danradio. Te.: Central 647. L.P.: Dir. Gen.: Hans Sølvhøj. Prgr. Dir./Sound: Aksel Dahlerup. Prgr. Dir./TV: Jens Fr. Lawaetz. Dir.: Ejnar Jensen. Dir. Adm.: J. Jannik. Dir. Secretariate: Erik Carlsen. Dir. Music: Vagn Kappel. Dir. Drama: Felix Nørgaard. Dir. Entertainment: Svend Pedersen. Dir. Inf. & Shortwave: P. Berg. Dir. Tec.: Fr. Heegaard. Dir. N.: N. Grunnet.

Listen to **THE VOICE OF DENMARK**

*The Danish short wave transmissions are beamed to
North America, South America, Africa, India and the Far East*



To North America on 31.51 m–9.520 kc/s.

Daily 1.30–2.30 and 3.00–4.00 GMT. E.S.T.: 8.30–9.30 and 10.00–11.00 p. m.

DX-bulletin: Wednesdays 2.00–2.10 a. m. and 3.30–3.40 a. m. GMT.

To South America on 19.78 m–15.165 mc/s.

Mondays, Wednesdays and Fridays 22.30–23.30 GMT.

To Far East, Australia and New Zealand on 19.78 m–15.165 kc/s.

Tuesdays, Thursdays and Saturdays 9.00–10.00 a. m. GMT.

DX-bulletin: Thursdays 9.50–10.00 a. m. GMT.

To South Asia on 19.78 m–15.165 kc/s.

Tuesdays, Thursdays and Saturdays 14.30–15.30 GMT.

DX-bulletin: Thursdays 15.20–15.30 GMT.

To North Africa and Near East on 19.78 m–15.165 mc/s.

Daily 18.30–19.30 GMT.

DX-bulletin: Tuesday 19.00–19.10 GMT.

To South Africa on 19.78 m–15.165 mc/s.

Daily 19.45–20.45 GMT.

DX-bulletin: Tuesday 20.15–20.25 GMT.

Special broadcasts to Danish ships daily 06.30–07.00 GMT. Far East 19.78 m–15.165 kc/s, 14.00–14.30 GMT. South Asia 19.78 m–15.165 kc/s, 16.00–16.30 GMT. Mediterranean and Middle East 19.78 m–15.165 kc/s, 22.00–22.30 GMT. South America 19.78 m–15.165 mc/s, and 01.00–01.30 GMT. North America 31.51 m–9.520 kc/s.

Listeners all over the world are invited to send reception reports together
with their criticisms and programme suggestions to
the **SHORTWAVE DEPARTMENT, RADIO HOUSE,**
COPENHAGEN V., DENMARK
Answer by letter or QSL-card

Denmark - Finland

HOME SERVICE:

1st PRGR.: W.: 05.00-22.05. Sun.: 07.00-22.05.

	kc/s	m	kW		kc/s	m	kW
Kalundborg I	245	1224	150	København I	1484	202	2 ¹⁾
København II	1430	210	10 ¹⁾	D.	16.00-22.05 only.	Sun.	07.00-11.00 ³⁾ 05.00-16.00.

N.: 05.00 (W), 06.00 (W), 07.00, 08.00 (W), 11.30, 13.30 (Mo.-Fri.), 14.00 (Sat.), 17.30, 21.00, 22.00 (exc. Sat.), 23.00 (Sat.). - Wrp.: 07.45, 10.50 (W), 17.05. - L.L.: English: Tues., Fri. 08.45-09.05. German: 2nd & 4th Sun. 07.05-07.25. - Request Prgr.: Sun. 11.00-13.00. Tues. 18.00-19.00. - Rel.: Sun. 09.00, 13.00, W. 07.30. 2nd PRGR.: W.: 16.00-22.05. (Sat. 23.05) Sun.: 07.00-11.00, 16.00-22.05.

	kc/s	m	kW		kc/s	m	kW
Kalundborg II	1061	283	60*	Ålborg	1484	202	0.25
København II	1430	210	10*	Tønder	1484	202	0.25
Skive	1430	210	70	Esbjerg	1594	188	2

* not Mo. 18.15-18.45.

FM:	Prgr.1	Prgr.2	Prgr.1	Prgr.2
	mc/s	mc/s kW	mc/s	mc/s kW
Odense	89.0	96.8 30	Næstved	94.8 97.5 60
København	90.8	96.5 26	Vestjylland	90.2 99.2 60
Århus	91.7	95.9 30	Bornholm	94.5 99.3 30
Ålborg	93.3	88.1 30	Sønderjylland	95.1 99.9 60

L.L.: English: Mo., Thurs. 16.40-17.00, Tues. 16.00-16.20. German: Mo., Thurs. 16.20-16.40. French: Mo., Thurs. 16.00-16.20. Spanish: Sun. 07.20-07.40. Russian: Tues. 16.20-16.40. Swedish: Sun. 07.40-08.00 (twice monthly).

Regional Programmes: Mo. 18.00-18.30.

North Jutland: Ålborg 1484 kc/s & 98.1 mc/s - Middle Jutland: Skive 1430 kc/s, Århus 95.9 mc/s - West Jutland: 99.2 mc/s - So. Jutland: Esbjerg 1594 kc/s, Tønder 1484 kc/s - South Jutland: 99.9 mc/s - Funen: Odense 96.8 mc/s - Seeland: Næstved 97.5 mc/s, København 96.5 mc/s - Bornholm: Bornholm 99.3 mc/s.

ANN.: "Danmarks Radio Program I (Program II). - INT.-SIG.: Prgr. I: From an old Danish folksong. D. at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:



FOREIGN SERVICE: (DS=Danish Ships).

	kc/s	m	kW		kc/s	m	kW		kc/s	m	kW
OZF3	6060	49.50	50	OZF5	9520	31.51	50	OZF9	15320	19.58	50
OZF4	7260	41.32	50	OZF7	15165	19.78	50				

01.00-01.30 D.	on	9520	kc/s DS (N. Am.)
01.30-02.30 D.	on	9520	- N. Am.
03.00-04.00 D.	on	9520	- N. Am.
06.30-07.00 D.	on	15165	- DS(FE)
09.00-10.00 Tues., Thurs., Sat.	on	15165	- FE, Au., NZ ¹⁾
14.00-14.30 D.	on	15165	- DS (S. As.)
14.30-15.30 Tues., Thurs., Sat.	on	15165	- S. As. ¹⁾
16.00-16.30 D.	on	15165	- DS (ME)
18.30-19.30 D.	on	15165 ²⁾	- N.Af., ME ¹⁾
19.45-20.45 D.	on	15165	- S.Af. ¹⁾
22.00-22.30 D.	on	15165 ²⁾	- DS (S.Am.)
22.30-23.30 Mo., Wed., Fri.	on	15165 ²⁾	- S.Am.

¹⁾ Last 30 min. in English. ²⁾ Dec. and Jan. on 9520 kc/s.

Prgrs. in Danish consist of N., Music, Songs, Talks and Features about life in Denmark and Reportages. - On all weekdays the broadcast to U.S. and Canada consists of a 30 minute prgr. in Danish and 30 minute prgr. in English.

A sketch of a weeks prgr. in Danish and in English: Mo.: N., Literary, Music, D. Views on the N., Classical Da. Music. - Tues.: N., Reportage, Entertainment, DX-Bulletin (19.00, 20.15). - Wed.: N., Entertainment, Actualities, Da. Folk Music, DX-Bulletin (02.00, 03.30). - Thurs.: N., Feature, Quiz, Concert. DX-Bulletin (09.50, 15.20). - Fri.: N., Talk, Light Music, Anything-anybody. - Sat.: N., Light Prgr., Saturday Night Club. - Sun.: Church Service, Da. Music, Reportage. - The Saturday Night Club will also contain letters from listeners and musical requests. - On Wed. 23.00-23.30 (N. and Music) and on Fri. 23.15-23.30 a special prgr. (Feature and Music) in Spanish (To South America).

ANN.: "Danmarks Kortbølgesender" - "You are tuned to the Voice of Denmark" - Every transm. begins with the chimes of the Town

Hall, followed by the National Anthem. - INT.-SIG.: The first bars of "Som en rejseysten Flåde" composed by Carl Nielsen:



Message to Listeners: The Danish State Radio is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible short wave service. - V. by letter or QSL-card.

★ FAROE ISLANDS (Danish Territory) ★

L.T.: GMT. - Pr.L.: Faroese. - Po.: 35.000. - Rcvrs.: 7.500. - E.C.: 220 V., A.C., 50 c/s.

ADDR.: Utvarp Föroya, Tórshavn. Te.: 2437. - L.P.: Mgr.: N. J. Arge. HOME SCE.: 1367 kc/s 219 m 5 kW: Mo.-Fri. 12.20-12.50, 18.30-19.15. Sat. 12.20-12.50, 18.30-21.00. Sun. 15.00-18.00. Prgr. consists of Wrp., N. from the Faroes, foreign N., lectures, music, features, commentaries.

ANN.: "Utvarp Föroya". - INT.-SIG.:



V. by letter. Rp. Re. in English or Scandinavian.

★ FINLAND ★

L.T.: GMT+2 h. - Pr.L.: Finnish, Swedish. - Po.: 4.484.655 (1/1 61). Rcvrs.: 1.269.000 (31/8 61). - E.C.: 110/127, 220/230 V., A.C., 50 c/s.

OY YLEISRAADIO AB (Go.). - Fl.: By license payments.

ADDR.: Unioninkatu 16, Helsinki. Cable: Yleisradio. Te.: 30691. - L.P.: Dir. Gen.: E. Sundström. Dir. Adm. and Dept. Dir. Gen.: O. Toivonen. Dir. Finnish Prgr.: J. Koskiluoma. Dir. Swedish Prgr.: C. Schildt. Dir. Tec.: J. Rissanen. TV-Prgr.: V. Zilliacus. Head For. Rel.: E. Vallila.

HOME SERVICE

FINNISH NETWORK: W. 04.30-06.10, 08.45-12.10, 15.00-21.00 (Sat. 08.45-22.00). Sun. 05.25-21.00.

L-M waves	kc/s	m	kW		kc/s	m	kW
Lahti	254	1181	200	Helsinki III	845	355	0.2
Oulu	433	693	10	Helsinki II	1412	212	2
Joensuu	520	577	1	Turku II	1412	212	0.4
Kuopio	755	397	20	Tampere	1421	211	1
Ylivieska	836	359	10	Pori	1484	202	1

FM:	mc/skW		mc/skW		mc/skW
Iisalmi	87.7 0.7	Kemi	92.7 10	Ylivieska II	96.1 5
Taivalkoski	88.3 30	Tampere I	93.7 10	Kaunisää	96.4 15
Mikkeli I	88.9 10	Ylivieska I	94.0 10	Rovaniemi	96.7 10
Forssa	89.2 0.1	Kajaani I	94.3 40	Pihtipudas	97.0 10
Tammisaari I	89.5 3	Turku I	94.3 25	Oulu II	97.3 0.6
Mänttä	89.8 0.1	Kristina I	94.6 10	Pori I	97.3 15
Koli I	90.1 15	Mikkeli II	94.6 10	Lahti II	97.9 15
Oulu I	90.4 25	Sammaltunturi	95.2 15	Turku II	98.2 25
Tampere II	90.7 0.7	Vaasa I	95.2 25	Åhtäri	98.5 40
Imatra	91.0 15	Lahti I	95.5 15	Pello	98.8 15
Kuopio	91.6 25	Savonlinna	95.8 10	Kajaani	98.9 40
Helsinki I	91.9 40	linna I	95.8 10	Pori II	99.4 3
Jyväskylä	92.2 10	Kotka	96.1 0.3	Kokkola	99.7 10
Rauma	92.5 0.1	Kuopio II	96.1 25	Savonlinna	99.1 7
Iisalmi II	92.8 0.7				

The FM-stations broadcast the Finnish main prgr., and in addition mw prgr. on W. at 14.00-15.00.

N., Wrp.: W. 04.30, 06.00, 10.30, 14.55, 17.00, 20.00. Sun. 06.30, 10.30, 17.00, 20.00. L.L.: English: Mo., Thurs. 20.20-20.35, Sun. 09.30-09.50. Rel.: Morning Prayer: W. 05.45-06.00. Evening Prayer: Mo., Wed., Fri. 17.30-17.40.

France

PRGR. NATIONAL (France III):

Medium Waves: kc/s	m	kW	kc/s	m	kW
Bayonne II	539	557 0.05	Clerm. Ferr.	1349	222 20
Bordeaux II	1070	280 20	Grenoble I	1349	222 20
Marseille II	1070	280 20	Limoges II	1349	222 20
Paris II	1070	280 100	Nantes I	1349	222 10
Brest I	1241	242 20	Toulouse II	1349	222 20
Lille II	1241	242 20	Annemasse	1484	202 1
Lyon II	1241	242 20	Caen	1484	202 0.05
Nancy II	1241	242 20	Dijon	1484	202 1
Nice III	1241	242 20	Poitiers	1484	202 2
Pau	1241	242 20	Saint-Brieuc	1493	201 0.05
Rennes II	1241	242 24	Besançon	1493	201 0.18
Strasbourg II	1277	235 100			

FM: Caen II 99.6 mc/s 12 kW - Bourges II 88.4 mc/s 12 kW - Dijon II 88.0 mc/s 2 kW - Paris II (Tour Eiffel) 97.6 mc/s 12 kW - Toulouse II 87.9 mc/s 2 kW - Reims II 94.4 mc/s 0.05 kW - Cannes III 99.6 mc/s 2 kW.

D.PRGR.: 05.00-23.00 (Wed. 08.13-10.55 break in tr.'s exc. for Paris II 1070 kc/s).

N.: 08.00, 11.00, 18.00 (W), 22.53 - "Ici New York": Mo.-Fri. 18.06 - The High Mass: Sun. 09.00-10.00 is relayed on 7160 kc/s. D. 05.00-05.58 Arabic.

PRGR. "HAUTE-FIDELITE" (France IV) on FM:

Cannes I	88.7 2	Strasbourg	95.0 2
Metz I	89.7 12	Marseille I	94.2 12
Paris I	90.35 12	Caen I	95.6 12
Toulouse I	91.5 2	Dijon I	95.8 2
Mulhouse I	92.1 12	Nancy	96.9 0.25
Lille I	92.2 12	Toulouse	90.3 0.25
Lyon	92.4 12	Bordeaux	98.1 2
Bourges I	94.9 12	Reims I	99.2 2
		Clerm. Ferr. I	90 2

J.PRGR.: D. 08.30-23.00.

SPECIAL BROADCASTS:

Paris IV (Romainville) 962 kc/s 312.0 m 5 kW.

J.PRGR.: "Culture Française": Sun. 08.00-18.00, Sat. 13.00-17.00.

ANNOUNCEMENTS:

for "Paris Inter - France I", "Prgr. Regional - France II", "Prgr. National - France III" and "Prgr. Haute-Fidélité - France IV" at opening and close down "La Marseillaise" followed by "Ici Paris, Radiodiffusion-Télévision Française" - Bordeaux: "Ici Bordeaux-Aquaine, Radiodiffusion-Télévision Française" - Lille: The first movement of the melody "Petit Quinquin" followed by "Ici Lille, Radiodiffusion-Télévision Française" - Limoges: Some movements of a folk-dance followed by "Ici Limoges, Radiodiffusion-Télévision Française" - Lyon: Harmonizing by R. Corniot of the melody "Allons aux rotteaux" followed by "Ici Lyon, Radiodiffusion-Télévision Française" - Marseille: "Ici Marseille, Radiodiffusion-Télévision Française" - Nancy: Some movements from "A la Volette" followed by Ici Radio Lorraine, Champagne, Radiodiffusion-Télévision Française - Rennes: Some movements from "L'air de chevaux" a popular dance, followed by "Ici Radio Bretagne, studio de Rennes, Radiodiffusion-Télévision Française" - Strasbourg: The first movements of Que notre Alsace est belle" followed by "Ici Strasbourg, Radiodiffusion-Télévision Française" - Toulouse: The first movements of "Mongnards" followed by "Ici Toulouse, Radiodiffusion-Télévision Française" - PUB.: Weekly: Prgr. schedule. - F.P.L.: 20 FM st.'s in 1961/62.

FOREIGN SERVICE

Short Wave Centre Allouis and Issoudun: 13 tr.'s each 100 kW, 1 tr. 1 kW

EUROPEAN SERVICE

Bulgarian	kc/s	17.00-17.15*	7160, 9570
17.30-18.00		1376	
18.00-19.45	9755/11920	17.30-17.45 (Sun.)	1376
Czech/Slovak		19.00-20.00	6145, 7160, 9570
19.00-20.00	5955	Portuguese	
English		07.00-07.15*	7160
17.45-07.00*	7160	19.00-19.30	7280, 9620
18.00-21.00	6145	19.30-19.45*	7280, 9620
French		Rumanian	
17.30-17.50a)	6145, 7160	18.15-19.00	9585/11845
18.00-21.00	5955, 7160, 9620	Russian	
		16.00-17.00	7280, 9620, 11885, 15160
Serbo-Croatian		18.00-19.00	7160, 9755
Spanish		07.15-07.30*	7160
17.45-12.55	11920, 15160	21.00-21.45	5955, 7160
Ungarian		21.45-22.00*	5955, 7160
18.15-19.00	5955, 9570	22.00-22.45 (W)	944
Yiddish		Yiddish	
18.00-08.20 (W)	1376	21.15-21.35 (W)	9620/11845
French lessons (W)	9560		

French lessons (W). a) Rel. prgr. Sun. only. b) Mass, Sun. only.

OVERSEAS SERVICE

I=French Polynesia, New Caledonia, New Hebrides; II=Africa; III=Antarctica; IV=Antilles, Guiana, St. Pierre et Miquelon; V=Far East; VI=Indian Ocean; VII=Middle East; VIII=Canada; IX=Latin America.

All prgr's in French exc. where indicated.

Time	Area	kc/s	Time	Area	kc/s
05.25-05.55 ¹	III	11885, 15130	16.30-18.00	VII	11845, 15245
06.00-06.45	I	7240, 9620, 6145	17.30-17.50 ²	VIII	15160, 17850
07.00-08.00	II	15160, 17765, 21580	20.00-20.57	II	9755, 11845
10.30-11.00	IV	17765/21580	23.00-23.30	V	9560, 11885
12.15-12.45	II	17765, 21580	23.15-02.15 ³	IX	9585/11845/11920
13.00-15.00 ³	V	15245/17765/21620	23.30-01.00	IV	9560, 11885
15.15-16.15	VI	17765, 21620			

¹ Mo. only; ² English 13.00-13.45 (French lesson 13.30-13.45), French 13.45-14.45, Vietnamese 14.45-15.00; ³ exc. Sat./Sun.

⁴ Portuguese 23.15-24.00 (French lesson 23.45), French 00.00-00.30, Spanish 00.30-02.15 (French lesson 00.30).

Arabic and Kabyle

a) to Middle East. b) to No. Africa.

Times	kc/s	Times	kc/s
04.00-05.00 ^a	1070, 1277, 11845, 7280/9560	16.00-18.00 ^a	11920, 15130, 9585, 11920, 15130
05.00-05.45 ^a	9560, 11845	18.00-19.00 ^a	11920, 15130, 15245
06.00-08.00 ^b	7280, 9585, 11920, 15130	19.00-20.00 ^b	9585/1710**
08.00-09.00 ^b	7280, 9585, 11920, 15130	20.00-21.00 ^b	7170**, 7280, 9585, 11920
*09.00-11.00 ^b	7170, 9585, 11920, 15130	21.00-22.00 ^b	7170**, 7280, 9585, 11920
11.00-12.00 ^b	7280, 9585, 15130	22.00-23.00 ^b	890**, 1304**, 7170**, 7280, 9585, 11920
12.00-13.00 ^b	962, 7280, 11920		
12.00-13.00 ^b	6145, 9585		
13.00-16.00 ^b	6145, 7280, 9585		

¹ Arabic. ² Kabyle. ³ relayed by R. Alger daily exc. Sun. on 890, 1304, 9685 kc/s. ** R. Alger.

RELAYS OF FRENCH HOME SERVICES

d) to Europe & Africa; e) Africa; f) Europe; g) Canada; h) Africa, Middle East.

Times	Areas	kc/s	Programme
05.14-23.00	d	6175	France I
07.00-07.30	e	11845, 21620	France II*
09.00-10.00 (Sun.)	f	7160	France III**
13.50-17.00 (Sun.)	e	21580	France II***
18.15-18.45	g	15160	France I****
19.00-19.25	h	15130, 11845	France II

* News (Journal Parlé). ** Catholic Mass. *** Sport & Music.

**** Paris vous parle.

ANN.: "Allo... (name of area) Paris vous parle". - V. by QSL-card. - The information above concerns France Metropolitan. For the other territories of République Française outside Europe: Algeria, Sahara (Saoura et Oasis), Martinique, Guadeloupe, Guiana, Reunion, Somali, Comores, New-Caledonia, Tahiti, Saint-Pierre et Miquelon, the broadcast service is supported by R.T.F. which also operates Radio Brazzaville (Congo). See evt. details resp. continents.

S.O.R.A.F.O.M. (Go. - an organization the purpose of which is improvement and development of broadcasting in "les Etats Independants d'Afrique d'expression Française").

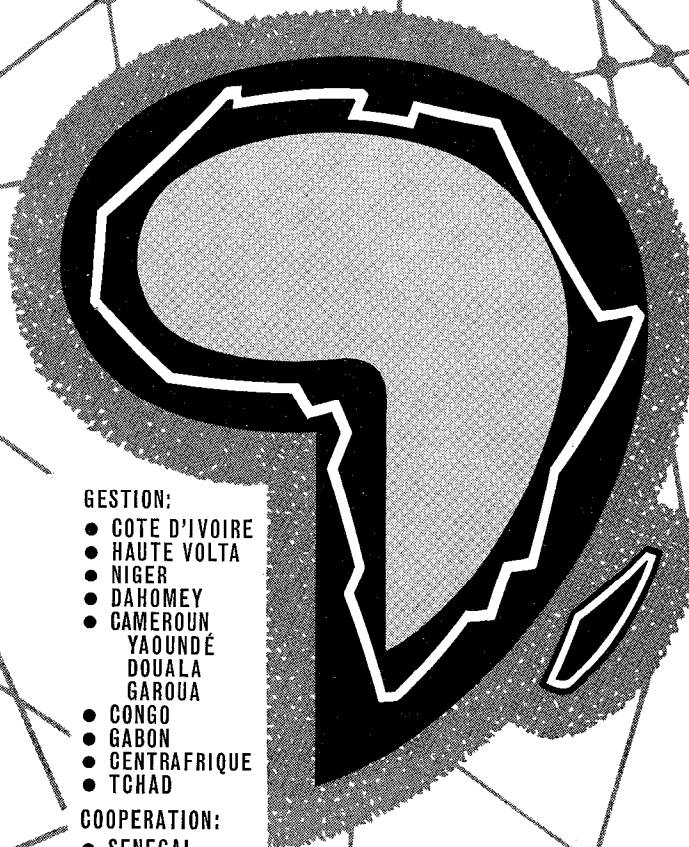
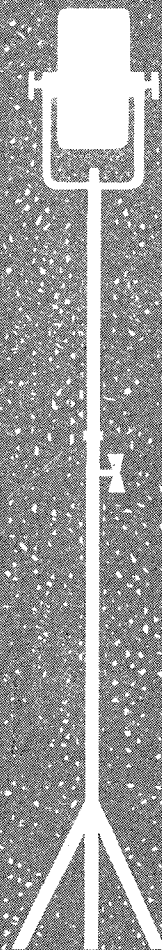
ADDR.: 46, rue d'Amsterdam, Paris 9^e. Cable: SORAFOM. Te.: PIGalle 99-39. - L.P.: Pres. of the Board of Adm.: M. Janot (Dir. Gen. of "Radiodiffusion-Télévision Française"). Dir. Gen.: M. R. Pontillon. Sec. Gen.: M. J. Lansier.

STATIONS: R. Sénégal (Darkar-Ziguinchor), R. Mauritanie (Nouakchott), R. Mali (Bamako-Mopti), R. Niger (Niamey), R. Cote d'Ivoire (Abidjan), R. Dahomey (Cotonou), Radiodiff. de la République du Togo (Lomé), R. Haute Volta (Ouagadougou), R. Gabon (Libreville), R. Tchad (Fort Lamy), R. Bangui (Bangui), Radiodiffusion du Cameroun (Yaoundé, Douala, Garoua), R. Madagascar (Tananarive), R. Congo (Brazzaville).

AMERICAN FORCES NETWORK, EUROPE (Mil.)

ADDR. & L.P.: See Germany. - STATIONS: Belmanoir 92.6 mc/s, Bordeaux 92.5 mc/s, Braconnie 89.1 mc/s, Bussac 96.9 mc/s, Capteux 92.8 mc/s, Chalons-Vatry 96.5 mc/s, Chambley 91.9 mc/s, Chateauroux 90.4 mc/s, Chaumont 98.5 mc/s, Chiron 99.6 mc/s, Croix Chapeau 93.8 mc/s, Dreux 97.5 mc/s, Etains 97.6 mc/s, Evreux 96.2 mc/s, Fontainebleau 95.3 mc/s, Fontenay 96.2 mc/s, Ingrandes 99.2 mc/s, Laon 99.8 mc/s, Metz 87.8 mc/s, Orleans 90.3 mc/s, Orly 91.8 mc/s, Perigueux 92.9 mc/s, Phalsbourg 94.6 mc/s, Poitiers 95.5 mc/s, St. Nazaire 99.8 mc/s, Saumur 87.7 mc/s, Toul Rosieres 94.0 mc/s, Trois Fontaines 94.9 mc/s, Verdun 90.0 mc/s, Vitry-le-François 88.9 mc/s. - D.PRGR.: 05.00 (Sun. 06.00)-00.05.

RADIODIFFUSION OUTRE-MER



GESTION:

- CÔTE D'IVOIRE
- HAUTE VOLTA
- NIGER
- DAHOMEY
- CAMEROUN
- YAOUNDÉ
- DOUALA
- GAROUA

- CONGO
- GABON
- CENTRAFRIQUE
- TCHAD

COOPERATION:

- SENEGAL
- MAURITANIE
- MADAGASCAR

46, RUE D'AMSTERDAM - PARIS 9° - PIG. : 99-39

★ GERMANY ★

GERMAN FEDERAL REPUBLIC

L.T.: GMT+1 h. - Pr.L.: German. - Po.: 55.257.100. - Revrs.: 16.114.527. - E.C.: 220 V., A.C., 50 c/s.

FL: By license payment and adv. exc. NDR and WDR.

ARBEITSGEMEINSCHAFT DER ÖFFENTLICH-RECHTLICHEN RUNDFUNKANSTALTEN DER BUNDESREPUBLIK DEUTSCHLAND (ARD)

Broadcasting:

Administration for Broadcast and Television: Intendant Dr. H. Bausch, Süddeutscher Rundfunk, Neckarstr. 145, Stuttgart-O. - Members: Bayerischer, Hessischer, Norddeutscher, Saarländischer, Süddeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Saarländischer Rundfunk for Broadcasting only - And as guest-partaker at meetings: RIAS Berlin.

Fernseh Koordinationsbüro: Staatssekretär a. D. Dr. K. Mohr, Referat für Eurovision: H. v. Plato, München 23, Leopoldstr. 10.

Fernsehbeirat: Abgeordnetes H. Müller, Sösepromenade 18, Osterode/Harz. - Fernsehkommission: Intendant E. Beckmann, Hess. Rundfunk. - Institut für Rundfunktechnik: Direktor K. O. Gernandt, Florians-nühlstr. 60, München - Freimann.

Television: Arbeitsgemeinschaft der Öffentlich-Rechtlichen Rundfunkanstalten der Bundesrepublik (ARD): See Sound Broadcasting.

DEUTSCHE WELLE

ADDR.: Postfach 344, Köln. Te.: 2841.

L.P. Intendant Dr. Hans-Otto Wesemann.

OVERSEAS SERVICE: Jülich-DMQ-5 tr. 100 kW, 1 tr. 20 kW.

Abbreviations: I=Far East; II=Japan; III=Middle East; IV=Africa; V=We. Africa; VI=So. America; VII=No. America East; VIII=C. America; IX=No. America West.

FIRST PROGRAMME:

	Area	kc/s	N. in G.	N. in E.	F., P., Sp.
06.45-09.45	I	11795, 15275, 21650	06.45, 09.35	08.45	E+F
09.45-12.45	II	15295, 17815	09.45, 12.35	11.45	E+F
12.45-15.45	III	17875, 21705	12.45, 15.35	14.45	E+F
16.00-19.00	III	9735, 11795	16.00, 18.50	18.00	E+F
17.15-20.15	IV	11715, 15275	17.15, 20.05	19.15	E+F
19.15-22.15	V	9605, 11925	19.15, 22.05	21.15	E+F
22.30-01.30	VI	9735, 11945	22.30, 01.20	00.30	P+Sp
00.00-03.00	VII	6100, 9640	00.00, 02.50	02.00	E
03.00-06.00	VIII	6145, 9735	01.45, 04.35	03.45	E+Sp
06.00-09.00	IX	6100, 9640	03.00, 05.50	05.00	E

Comm. (German): After the first German news. - "Wie wir leben": D. - "Unter uns gesagt": Wed. - Folklore Music: Tues., Sat. - L.L.: After the foreign language news. - DX-Programme (German and English): every 2nd Mo. of the month at 08.00, 11.00, 14.00, 17.15, 18.30, 20.30, 23.45, 01.15, 03.00, 04.15.

Arabic Service:

11.40-12.40 on 15405, 17845, 21650 kc/s.

19.15-20.15 on 9735, 11905 kc/s.

SECOND PROGRAMME:

H. of tr.	Area	kc/s	L.L.	N.
08.00-09.30	II	15405, 17815	09.00	08.25 E+F
10.00-11.30	I	15405, 17845, 21650	11.00	10.25 E+F
13.45-15.15	III	15275, 17815	14.45	14.10 E+F
15.30-17.00	IV	15275, 17815	16.30	15.55 E+F
17.30-19.00	V	11905, 15285	17.55	18.30 E+F
20.30-22.00	VI	9735, 11795	21.30	20.55 P+Sp
22.15-23.45	VII	6100, 9605	23.15	22.40 E+F
00.00-01.30	VIII	6145, 9605	00.25	01.00 E+Sp
05.00-06.30	IX	6145, 9735	06.00	05.25 E

Prgr's consist of music, foreign language news and language course. ANN.: G.: "Hier ist die Deutsche Welle". - E.: "This is the Voice of Germany". - F.: "Ici la Voix de l'Allemagne". - Sp.: "Habla la Voz de Alemania". - P.: "Esta é a Voz de Alemanha".

[INT.-SIG.: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card. - PUB.: Monthly Prgr. sched. free on request.

DEUTSCHLANDFUNK (Gemeinnützige Anstalt des öffentlichen Rechts)

Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschland vermitteln.

ADDR.: Köln-Marienburg, Lindenallee 7. Te.: 380161/62. - L.P.: Intendant Dr. H. F. G. Starke. Dir. kulturelles Programm: Dr. Jür-

gen Petersen. Dir. aktuelles Programm: Joseph Viehöver. Verwaltungsdirektor und Justitiar: Freiherr von Sell. Sendeleiter: Erhardt Imelmann.

STATIONS:

Hamburg, 151 kc/s 1981 m 50 kW

Mainflingen 1538 kc/s 195.0 m 50 kW

D.PRGR.: from 1/1 1962: 15.00-24.00, during 1962 increase of broadcast time to 04.00-24.00. - INT.-SIG.: Motif "Du Land voll Lieb' und Leben" from the folksong "Ich hab' mich ergeben" - ANN.: "Hier ist der Deutschlandfunk".

DER BAYERISCHE RUNDFUNK

(Anstalt des öffentlichen Rechts). AD.: W. 05.30-06.00, 08.55-09.35, Mo.-Fri. also 12.45-13.00, Tues., Wed., Thurs. 18.40-18.45. ADDR.: München 2, Rundfunkplatz 1. Cable: Bayernfunk München. Te.: 59001. - L.P.: Intendant: Christian Wallenreiter. Prgr.-Coordinator: W. von Cube. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

HOME SERVICE

FIRST PRGR. on all frequencies: W. 04.30 (Sat., Sun. 05.00)-24.00 (exc. 08.55-09.35 m.w. only). *) night only. *) Kempten, Passau. *) Augsburg, Landshut.

M.waves:	kc/s	m	kW		kc/s	m	kW
Bayreuth	520	577	0.2	Hof	1602	187	1
Würzburg	520	577	0.2	Land./Isar	1602	187	20*
2 1.power ¹⁾	520	577	0.2*	Kirchheim	1602	187	20*
München	800	375	10	Coburg	1602	187	1
2 1.power ²⁾	1484	202	1.0*	Regensburg	1602	187	1*
Nürnberg I	1602	187	20 day				
			40 night				

Short Wave: München-Ismaning 6085 kc/s 49.30 m 10 kW.

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Lindau	4	88.3	0.5	Bamberg I	25	94.45	12
Burgst./H.Bogen	6	88.8	18	Ochsenkopf/I	30	96.05	60
Traunst./Hochb.	7	89.05	3	Fichtelgeb. II	30	95.95	0.5
Berchtesgaden	9	89.7	0.5	München I	36	97.75	10
Bad Reichenh.	11	90.3	0.5	Kreuzb./Rhön I	36	97.75	10
Wendelstein	22	93.65	100	Hühnb./b.Hb.	37	98.1	4
Pfaffenberg b.)	24	94.2	18	Dillberg I	39	98.75	18
Aschaffenburg							

N.: 05.00 (W), 06.00 (D), 07.00 (D), 08.00 (W), 12.00 (D), 16.00 (W), 18.45 (D), 21.00 (D), 23.00 (D). - "Echo der Zeit": W. 17.30 - Night Prgr.: 00.05-04.20 on 800 kc/s (München) Sun., Tues., Thurs., Sat., on 1602 kc/s (Nürnberg) Mo., Wed., Fri. - Rel.: Sun.: 06.45, 09.00, 09.30; Tues.: 17.15, 21.10; Wed. 09.35; Fri. 17.00 - Folklore Music: Sun. 08.35.

SECOND PRGR.: Mo.-Fri.: 04.30-08.50, 09.30-24.00. Sat., Sun.: 05.00-24.00. - Relay First Prgr.: 04.30-05.05, 06.00-07.15; Mo.-Fri. 11.05-12.00; Wed., Fri., Sat. 23.00-24.00; Sun.: 05.00-06.05, 23.00-24.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Würzburg	2	87.6	3	Hohe Linie	13	90.9	12
Frankenwarte	2	87.6	0.1	Hohenpeissenb.	14	91.25	9
Tegernseer Tal	3	87.9	0.1	Brotjacklriegel	15	91.5	100
Landshut	4	88.2	0.5	Ochsenkopf/ I	16	91.775	60
München II	5	88.5	10	Fichtelgeb. II	20	93.0	0.5
Gelbelsee/	5	88.5	10	Kreuzeck b.	20	93.0	0.5
Eichst. Alb.	10	90.0	3	Garm. Partenk.	20	93.0	0.5
Kreuzb./Rhön II	8	98.35	100	Passau/Kühberg	20	93.0	0.5
Coburg	10	90.0	3	Dillberg II	23	93.9	18
Wendelstein II	10	90.05	100	Büttelb./Fr.ankh	32	96.6	3
Grünten/Allgäu	12	90.5	60	Augsburg	40	99.05	0.75
Bamb./Geisb. II	13	90.85	12				
Rel.: Sun.: 07.00, 07.30. - Folklore Music: Sun. 11.10, Tues. 13.00, Fri. 18.05. - L.L.: English: Mo., Fri. 19.45-20.00.							

ANN.: "Hier ist der Bayerische Rundfunk". E.: "This is the Bayerische Rundfunk". - V. by QSL-card or letter. Prgr. sched. on request.

INT.-SIG.:



RADIO BREMEN (Anstalt des öffentlichen Rechts).

AD.: Mo.-Fri. 07.05-07.30, 12.10, 13.00, 17.30-18.00. Sat. 17.30-17.50. - ADDR.: Heinrich-Hertz-Str. 13, Bremen. Cable: Radio. Te.: 444041. - L.P.: Intendant: H. Kerneck. Dir. Prgr.: & TV: H. Abich. Dir. Tec.: H. Heyer.

HOME SERVICE

First Prgr.: W. 05.00-23.05. Sun. 06.00-23.05.

Bremen 1358 kc/s 221 m 20 kW. - Bremerhaven 1079 kc/s 278 m 2 kW. FM: Bremen I ch. 33 96.9 mc/s 18 kW.

Second Prgr.: FM: W. 17.00-23.05. Sat. 15.00-23.05. Sun. 09.00-23.05 exc. 12.00-15.00. - Bremen II ch. 8 89.3 mc/s 18 kW - Bremerhaven II ch. 16 91.8 mc/s 0.5 kW.

N., Wrp., Comm.: (1st & 2nd Prgr.) 05.05 (W), 05.30 (W), 06.00 (W), 06.30 (W), 07.00, 07.30 (W), 12.00, 16.00 (exc. Sat. & Sun.), 18.30, 20.30, 21.00, 22.00 (exc. Sat.), 23.00. — "Die Zeit im Funk": W. 18.00–18.30. — Rel.: 05.00, W. 07.35, Sun. 06.00, 09.00, Sat. 17.00. — L.L.: English: Tues. 14.45; Wed. 08.45, 14.30; Thurs. 08.30, 14.40; Fri. 08.40.

ANN.: "Hier ist R. Bremen mit dem ersten, bzw. zweiten Programm".
INT.-SIG.:



V. by QSL-card. Re. in E., F. or G.

F.P.L.: Sw. on 6195 kc/s, transmitting the 1st prgr. — PUB.: Prgr. sched. free on request to Pressestelle, Radio Bremen.

HESSISCHER RUNDfunk (Anstalt des öffentlichen Rechts).
I=Prgr. I; II=Prgr. II. — AD.: W. 07.15–08.00 (I+II), 10.10–10.30 (I), 10.30–10.50 (II), 12.00–12.50 (I+II).

ADDR.: Frankfurt am Main, Bertramstrasse 8. Cable: Hessfunk. Te.: 59051. — L.P.: Intendant: E. Beckmann. Persönlicher Referent: Dr. H. Prescher. Press: R. Weigand. Dir. of the Staff: W. Heckroth. Dir. Adm.: Diplomkaufmann H. Weber. Dir. Tec.: Dr.-Ing. F. Miséré. Dir. Prgr. (Radio): Dr. H. Wicht. Dir. Prgr. TV: W. Hess. Prgr. Management (Radio & TV): W. Müller. Politic & N.: Chief Editor O. Herr. Culture: Dr. J. Petersen. Education: Dr. G. Kadelbach. Music: Dr. H.-W. Kulenkampff. Entertainment: W. Jasper.

HOME SERVICE

PRGR. I:

Frankfurt 593 kc/s 505.8 m 100 kW d.

Meissner 593 kc/s 505.8 m 20 kW d.

FM	mc/s	kW		mc/s	kW
Feldberg	88.53	10	Würzburg	96.0	0.25
Biedenkopf	95.37	10	Meissner	93.30	0.25
Hardberg	93.30	0.25			

PRGR. II:

FM	mc/s	kW		mc/s	kW
Meissner	89.69	10	Feldberg	92.13	10
Biedenkopf	91.20	10	Würzburg	89.74	0.25
Hardberg	89.70	0.25			

D.PRGR.: I: Mo.–Fri. 04.00–09.10, 10.00–13.20, 14.00–04.00. Sat./Sun. 04.00–04.00. — II: Mo.–Fri. 04.00–09.10, 10.00–23.00. Sat./Sun. 04.00–23.00. NEWS: I+II: 04.00, 05.00, 06.00, 07.00, 11.50. I: 15.00*, 7.00*, 18.40, 21.00, 23.00. II: 16.00*, 18.00*, 22.00, 23.00.

) Mo.–Fri. — Wrp.: Before and after N. — Comm.: W. 18.50 (I), 18.10 (II). — L.L.: Tues., Fri. 16.45 (II): French (to Jan 31st, 1962), English from Feb. 1962).

INN.: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt".
NT.-SIG.: Electronic music. — V. by QSL-card. — PUB.: Prgr. schedule (half yearly, yearly and weekly).

NORDDEUTSCHER RUNDfunk

(Anstalt des öffentlichen Rechts.)

Fl.: By license payments. — ADDR.: Hamburg 13, Rothenbaumchaussee 132/34. Cable: Nordfunk. Te.: 441931. Hannover: Hannover, Rudolf-von-Bennigsen-Ufer 22. Te.: 82331. — Studios: Flensburg: Friedrich-Ebert-Str. 1 — Oldenburg: Oldenburg i.O., Jägerstr. 30 — Berlin: Berlin-Grünwald, Hubertusallee 26.

L.P.: Intendant: G. Schröder. Prgr. Dir.: Dr. H. Arnold. Finanzdir.: G. Schulz. Dir. Tec.: Dr. H. Rindfleisch.

HOME SERVICES

FIRST PRGR.: D. 03.55 (Sun. 04.58)–00.15 (Sat. 01.15). Night Prgr. on 520 kc/s (Braunschweig), 701 kc/s (Hamburg), 1570 kc/s (Flensburg) 1586 kc/s (Hannover, Oldenburg), Hamburg 92.1 mc/s, Harz 96 mc/s Sun., Mo., Fri. 00.15–03.30. Sat. 01.15–04.30.

	kc/s	m	kW		kc/s	m	kW
Braunschweig	520	577	2	Flensburg	1570	191	10
Norden/Osterl.	701	428	2	Hannover	1586	189	40
Lingen	701	428	2	Kiel	1586	189	5
Göttingen	971	309	5	Oldenburg	1586	189	40
Hamburg	971	309	100	Osnabrück	1586	189	5

FM Stations (relay m.w. prgr. exc. night prgr.)

	ch.	mc/s	kW		ch.	mc/s	kW
Oldenb.	2	87.6	70	Lingen	18	92.4	15
Nannen.	9	89.7	15	Bungs.	29	95.7	3
Heide	10	90.0	15	Hamb.	31	96.3	5
Lübeck	13	90.0	0.03	Götting.	32	96.65	1.2
				Kiel	40	99.0	1.2
				Harz	43	99.9	100

N., Wrp.: D.: 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 07.55 (Sun).

08.00, 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00. Rel.: Sun. 09.00, W. 05.50.

SECOND PRGR.: W. 05.00–23.05. Sun. 06.58–23.05.

Short Waves: Norden/Osterloog

3970 kc/s 75.57 m 5 kW			- 6075 kc/s 49.38 m 20 kW				
FM:	ch.	mc/s kW		ch.	mc/s kW	ch.	mc/s kW
Harz	4	88.2 100	Bungs.	15	91.5 3	Osnabr.	22 93.6 2
Hambg.	5	88.5 50	Flensbg.	20	93.0 15	Hannov.	23 93.9 3
Götting.	6	88.8 2	Osterl.	21	93.3 15	Kiel	24 94.1 1.2
Lingen	6	88.8 15	Dannen.	21	93.3 15	Oldenb.	28 95.4 70
Braunsw.	6	88.8 0.5	Heide	22	93.6 15	Lübeck	42 99.7 0.03
N., Wrp.: W.: 06.30, 07.30, 11.00, 17.00 (exc. Sat.), 18.55, 21.30, Sun.: 07.00, 18.55, 21.30.							

N., Wrp.: W.: 06.30, 07.30, 11.00, 17.00 (exc. Sat.), 18.55, 21.30. Sun.: 07.00, 18.55, 21.30.

THIRD PRGR.: D. 19.00–approx. 21.30.

FM:	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Bungs.	3	87.9	0.5	Hannov.	13	90.9	5	Götting.	18	92.4	1
Flensb.	8	89.45	15	Oldenb.	14	91.2	70	Harz	30	96.0	100
Osnabr.	10	90.0	2	Hambg.	17	92.1	50	Lingen	35	97.6	0.25
Kiel	12	90.6	2	Lübeck	18	92.4	0.03	Dannen.	39	98.7	1

ANN.: 1st Prgr.: "Hier ist der Norddeutsche Rundfunk". — 2nd Prgr.: "Hier ist der Norddeutsche Rundfunk auf Ultrakurzwelle". — 3rd Prgr.: "Hier ist das Dritte Programm des Norddeutschen Rundfunk".

INT.-SIG.: 1st Prgr.: Motif from the first movement of Johs. Brahms' Symphony no. 2.



2nd Prgr.: "Einen verlegten Nonen-Akkord". — 3rd Prgr.: The tones "B-A-C-H" in Regerharmonization. — V. by QSL-card.
PUB.: "Die Ansage". Weekly. Prgr. sched. weekly.

SAARLÄNDISCHER RUNDfunk

(Gemeinnützige Anstalt des öffentlichen Rechts). AD: W. 06.15–07.30, 10.00–11.00, 11.40–12.00, 12.25–12.30. Mo.–Fri. also 17.25–18.05. Sat. 16.30–17.00. — ADDR.: Intendantz und Verwaltung, Schloss Halberg, Saarbrücken. — Brebach. Cable: Saarl. Rundfunk. Te.: 65742. — L.P.: Intendant Dr. F. Mai. Dir. Prgr.: D. A. Schum. Dir. Adm.: W. Klein. Tech. Dir.: Dipl. Ing. F. Glasow.

HOME SCE, in German: 1421 kc/s 211.1 m 100 kW.

FM: 96 mc/s 3 kW Tholey — 98.9 mc/s 0.25 kW Schwarzenberg. M.W. Prgr.: W. 04.57–08.30, 10.00–23.05. Sun. 05.30–23.05. — N., Wrp.: 05.00 (W), 06.00, 07.00 (Sun.), 07.30 (W), 12.00, 16.00 (W), 18.30, 21.00, 23.00. Rel.: Sun. 09.00, W. 06.55, 08.55.

FM Prgr.: Rel. m.w. exc.: W. 17.00 (Sat. 13.00)–22.00. Sun. 07.15–13.00, 14.00–22.00. N., Wrp.: 17.30, 21.50.

ANN.: "Hier spricht der Saarländische Rundfunk auf Wellenlänge 211 m (bzw. Ultrakurzwelle 96.0 und 98.9 MHz)".

INT.-SIG.: "Glück auf, der Steiger kommt". — V. by QSL-card and letter. — PUB.: Prgr. schedule free on request.



EUROPE NO. 1. (Comm.)

ADDR.: Europäische Rundfunk und Fernseh AG., Saarbrücken, Dudweilerstrasse 57/59, Saarbrücken. Te.: 2.41.62. — L.P.: Lucien Gillet, Prof. Dr. Eugen Meyer, Frédéric Billmann. — PRGR.-ADDR.: Télécompagnie, 28, Rue François Ier, Paris 8e. Cable: Euradio. Te.: Balzac 6500. — L.P.: Pres.: Sylvain Floirat. Gen. Mgr.: Maurice Siegel. — ADVERTISEMENT-ADDR.: Regie No. 1, 28, Rue François Ier, Paris 8e. — L.P.: Dir.: Lucien Gillet, Wormser. Gen. Mgr.: Frydmann. D. PRGR.: Felsberg 182 kc/s 1647 m 400 kW: D. 05.30 (Sun. 06.00)–01.00. — N.: Every h. on the h. — ANN.: "Ici Europe No. 1 — Hier spricht Europa Nr. 1 — This is Europe No. 1".

SÜDDEUTSCHER RUNDfunk

(Anstalt des öffentlichen Rechts). AD: W. 06.10–07.00, Mo.–Fri. 12.00–13.15, Sat. 12.15–13.15. — ADDR.: Neckarstrasse 145, Stuttgart-O. — Cable: Rundfunk, Stuttgart. Te.: 29 97 01.

Studios: Heidelberg-Mannheim: Heidelberg, Marstallstr. 6. Karlsruhe: Kriegsstr. 168. — L.P.: Vorsitzender des Rundfunksrats: Dr. Valentin Gaa, Landrat, Schwetzingen. Vorsitzender des Verwaltungsrats: Dr. rer. nat. h. c. Dr. ing. e. h. Alex Möller, Generaldir. (Mdl.), Karlsruhe. Intendant: Dr. Hans Bausch. Programm-dir.: Dr. Peter Kehm. Verwaltungsdirektor: Friedrich Müller. Technischer Dir.: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.

Germany

HOME SERVICE

MEDIUM WAVE PRGR. (relayed by S.W. and FM): Mo., Fri. 03.56-03.30 - Tues., Thurs. 03.56-23.15 - Wed. 03.56-03.55 - Sat. 03.56-24.00 - Sun. 04.56-23.10 - (Interval: Mo.-Fri. 13.25-14.00).

Stations	kc/s	m	kW	kc/s	m	kW
Mühlacker	575	522	100	Schwäbisch-Hall	1484	202 0.2
Heidelberg-Dossh.	998	301	10	Eberbach	1484	202 0.2
Buchen-Waldürn	998	301	0.2	Mosbach	1484	202 0.2
Ulm-Jungingen	1169	257	3	Bopfingen	1484	202 0.2
Heilbronn-Oberseish.	1169	257	10	Ellwangen	1484	202 0.2
Bad Mergenth.	1412	212	3	Adelsheim	1484	202 0.2
Wertheim	1484	202	0.2	Gerabronn	1484	202 0.2
Heidenheim	1484	202	0.2	Giengen	1484	202 0.2
Crailsheim	1484	202	0.2	Kirchberg	1484	202 0.2
				Külsheim	1484	202 0.2
				Neresheim	1484	202 0.2

Short Wave: Mühlacker: 6030 kc/s 49.75 m 20 kW.

FM:	ch.	mc/s	kW	ch.	mc/s	kW
Stuttgart I	25	94.5	100	Waldenburg I	10	90.0 100
Aalen I	19	92.7	50	Geislingen I	14	91.2 0.5
Heidelberg I	15	91.5	80	Ulm I	3	87.9 0.5

News: W. 04.30, 05.00, 06.00, 07.00, 08.00, 11.30, 17.00, 18.30, 21.00, 23.00. **Sun.:** 07.00, 11.30, 18.30, 21.00, 23.00.

FM-PRGR.: W. 05.10-23.15 (Sat. 24.00). **Sun.** 07.05-23.10 - (Interval Mo.-Fri. 09.15-09.45.)

	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart II	13	90.9	100	Stuttg.-Funkh.	21	93.2	0.3
Waldenburg II	22	93.6	100	Heidelberg II	3	87.9	80
Aalen II	7	89.1	50	Mühlacker	6	88.8	4
B.Mergenth.IIA38		98.4	0.5	B.Mergenth.IIB	6	88.85	0.1
Geislingen II	2	87.6	0.5	Wertheim	19	92.72	0.1
Ulm II	15	91.5	0.5	Buchen	19	92.67	0.1

N.: W. 04.30, 05.00, 06.00, 07.00, 08.00, 12.00, 13.00, 17.00, 19.00, 22.00, 23.00. **Sun.** 07.00, 09.00, 12.00, 19.00, 22.00, 23.00 - "Volksmusik"; Tues. 16.30-17.00 (Fortnightly). **Sun.** 06.10-07.00 (every 4 weeks) **ANN.:** "Süddeutscher Rundfunk" - INT.-SIG.: The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele" - V. by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts).

AD.: 1^o Prgr.: Mo.-Fri. 09.15-10.45 exc. Wed. approx. 09.30-10.45, 12.00-13.00. **W.** also 17.20-17.50. 2^o Prgr.: W. 06.10-06.40. Mo.-Fri. 07.30-09.00. Sat. 07.05-08.30.

ADDR.: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. Cable: Südwestfunk Baden-Baden. Te.: 761. - Studios: Freiburg i Br.: Günterstal, Kyburg. Mainz: Deutschhausplatz 8. Tübingen: Matthias-Koch-Weg 7. - "Zweigstellen": Kaiserslautern: Auf dem Sess. Koblenz: Januarvis-Zick-Str. 8. Trier: Christophstrasse 24. **L.P.:** Vorsitzender des Rundfunkrates: H. Matthes, Mainz, Vorsitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: Senator h.c. Prof. Fr. Bischoff. Programmdir. u. stellvertretender Intendant: L. Hartmann. Tech. Dir.: Dr. H. v. Braunnmühl. Verwaltungsdirekt.: A. Manke. Press u. Inf.: H. R. Fröbel. Leiter Freiburg Studio: E. Bruggler. Leiter Mainz Studio: T. W. Zwermann. Leiter Tübingen Studio: A. G. Richter.

HOME SERVICE

PRGR. I: Sun. 05.50-24.00. W. 04.45-23.10 (Wed. 24.00, Sat. 01.00).						
M.Waves:	kc/s	m	kW		kc/s	m kW
Bad Dürreheim	665	451	20	Sigmaringen	827	363 3
Baden-Baden	827	363	1.5	Trier	827	363 1
Freiburg	827	363	20	Rheinsender	1016	295 120
Kaiserslautern	827	363	3	Ravensburg	1538	195 40
Koblenz	827	363	0.5	Reutlingen	1538	195 10
Short Wave: Bad Dürreheim 7265 kc/s 41.29 m 1.5 kW.						

Short Wave: Bad Dürkheim 7265 kc/s 41.29 m 1.5 kW.

FM	ch.	mc/s	kW	ch.	mc/s	kW
Baden-Baden I	18	92.5	0.25	Linz I	36	97.8 3
Betzdf. I/West	20	93.0	0.25	Potzberg I	28	95.4 3
Blauen I	29	95.7	3	Raichberg I	16	91.8 3
Feldberg I	22	93.6	0.25	Witthoh I	2	87.6 1.5
Haardtckopf I	38	98.4	5	Wolfsheim	33	96.9 3
Hochrheinsd. I	15	91.5	0.1	Hornisgrinde	20	93.0 10
Koblenz I	25	94.5	1			

N., Wrp.: 04.50 (W), 06.00, 07.00, 08.30 (W), 11.45, 15.00 (W), 21.00, 23.00. - "Tribüne der Zeit": W. 18.30. **Sun.** 18.40. - "Deutsche Pressestimmen": W. 12.00.

PRGR. II: Sun. 05.50-24.00. W. 04.45-23.10 (Wed. 24.00, Sat. 01.00).						
FM	ch.	mc/s	kW		ch.	mc/s kW
Baden-Baden	10	89.9	0.25	Mainz II	21	93.3 0.05
Betzdorf II	8	89.4	0.25	Linz II	30	96.0 3
Blauen II	10	90.0	1	Potzberg II	14	91.2 3
Eifel II	4	88.2	2	Raichberg II	30	96.0 3

FM	ch.	mc/s	kW	ch.	mc/s	kW
Feldberg II	38	98.4	0.25	Waldburg II	18	92.4 3
Haardtckopf II	10	90.0	5	Weinbiet II	11	90.3 6
Hochrheinsd. II	19	92.7	0.1	Witthoh II	14	91.2 1.5
Hornisgrinde II	8	89.4	10	Wolfsheim II	41	99.3 3
Koblenz II	13	90.9	1			

N., Wrp.: 04.50 (W), 06.00, 07.00 (W), 09.00 (Sun.), 11.00, 13.45 (Sun.), 15.00 (W), 19.00, 21.00, 23.00. **French** by R.: Mo., Thurs. 18.45. **English** by R.: Tues., Fri. 18.45.

ANN.: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie..." - INT.-SIG.: Baden-Baden: Motiv from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).



Studio Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria".



Studio Tübingen: "Droben im Oberland" (2 horns).



Landesstudio Rheinland-Pfalz (Mainz): The first movements of the song: "Dort wo der alte Rhein" (Celesta). - V. by letter.



WESTDEUTSCHER RUNDFUNK (WDR) (Anstalt des öffentlichen Rechts) - FL: By license payments.

ADDR.: Wallrafplatz 5, Köln. Cable: WDR. Te.: 2841. - Studios Bonn, Dahlmannstrasse 32. Dortmund, Westenhellweg 86/88. Bielefeld Lessingstrasse 3. Münster, Warendorfer Str. 1. Düsseldorf, Palmstrasse 16. Essen, Waldhausenpark 2. **L.P.:** Intendant: Klaus von Bismarck. Verwaltungsdirektor & Justiziar: Dr. H. Brack. Sound Dir.: Dr. F. Brühl. TV-Direkt.: Dr. Hans-Joachim Lange. Dir. Tec.: K. Schulz. Verwaltungsleiter: Ernst Przybylla. Int. Prgr.-Austausch: Frau Dr. F. Hönke. Pressechef: J. Rick.

HOME SCE.:

M.W.-Prgr.: W.: 03.55-09.30, 10.00-03.53 (Sat. 10.00-04.55). **Sun.** 04.58-03.53.

Medium Waves:	kc/s	m	kW	kc/s	m	kW
Aachen/Stolb.	701	428	2	Langenberg	971	309 100
Herford	701	428	2	Münster	1502	199.7 0.3
Siegen	755	397	2	Bonn	1586	189 3
				Kleve	1586	189 3

FM. Common WDR and NDR m.w. prgr.:

Langenberg	ch.	mc/s	kW	ch.	mc/s	kW
Köln	21*	93.4	0.5	Nordhelle	39	98.7 15
Aachen-Stolb.	38	98.4	5	Teutob. Wald	42	99.6 100
				Wittgenst. Land	2	87.6 15

N., Wrp.: W.: 04.00, 05.00, 06.00, 07.00, 07.55, 12.00, 16.00 (exc. Sat.) 18.00, 20.45, 23.00. **Sun.:** 06.00, 08.00, 12.00, 18.00, 20.45, 23.00. **Comm.:** Mo.-Fri. 18.10-18.15, 21.00-21.10. - **Rel.:** Sun. 09.00-10.00 W. 05.50-06.00.

FM-Prgr.: W. 05.45-23.00. **Sun.** 06.00-24.00.

Bonn	ch.	mc/s	kW	ch.	mc/s	kW
Köln	6	88.8	0.5	Siegen	16	91.8 0.5
Aachen-Stolb.	10	89.75	0.5	Wittgenst. Land	19	92.7 15
Monschau	10	90.0	0.5	Nordhelle	23	93.9 15
Kleve	15	91.5	0.25	Teutob. Wald	24	94.2 100
Eifel sender	16	91.8	8	Münster	25	94.5 5
				Langenberg	29	95.7 100

N., Wrp.: 06.30, 07.30, 11.30 (Sun. 11.40), 16.50 (Sat. 16.55), 17.00, 19.00, 22.00. - **Rel.:** W. 07.35-07.45, Sat. 17.15-17.45.

3rd Prgr.: Thurs., Fri., Sat.: 19.00-21.00. **Sun.** 14.30-16.30.

Langenberg	ch.	mc/s	kW	ch.	mc/s	kW
Teutob. Wald	12	90.65	100	Nordhelle	32	96.6 15

ANN.: M.W. Prgr.: "Westdeutscher Rundfunk" - FM-Prgr.: "Westdeutscher Rundfunk, Ultrakurzwellenprogramm", "Westdeutscher Rundfunk, Drittes Programm".

INT.-SIG.: M.W. Prgr.: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.



FM-Prgr.: Motif from the second movement of the third symphony E-flat (Robert Schuman) electronic music.



3rd Prgr.: Motif from the "Magic Flute" (Mozart): "Das klingt so herrlich, das klingt so schön" played on Celeste.



V. by letter.

BERLIN-WEST

RIAS-BERLIN. - FI.: By United States Information Agency.
ADDR.: Berlin-Schöneberg, Kufsteiner Str. 69. Cable: Rias-Berlin.
 Te.: 710271. - L.P.: Dir.: R. H. Lochner. Dir. Pol.: R. Müllerburg.
 Dir. Prgr.: H. Kundler. Dir. Adm.: M. R. Braun. Dir. Tec.: A. Pösniker.
 Dir. Listeners Rel. and Press: H. Kirstaedter.

STATIONS:	kc/s	m	kW	
München ²⁾	173	1734	1000:	D. 04.30-07.30, 10.45-12.00 20.00-21.00.
Berlin (Hof) ¹⁾	683	439	100	D. 24 h. on 989 kc/s and FM. The other freq.'s have short daily intervals at var- ious hours.
Hof	737	407	40	
Berlin ²⁾	854	351	20	
Berlin ¹⁾	989	303	300/200	
Berlin ¹⁾	6005	49.96	20	

¹⁾ RIAS I ²⁾ RIAS II ³⁾ VOA

FM: Berlin²⁾ ch. 6 88.8 mc/s 10 kW - Berlin¹⁾ ch. 17 92.1 mc/s 3 kW.
 N., Wrp.: D. 22.00, 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30,
 05.30, 06.30, 07.30, 08.30, 10.30 (W), 11.30 (W), 12.30 (W), 15.30.
 RIAS I: 12.00 (Sun.), 18.00, 20.30 (W), 21.00 (Sun.), 22.00 (W).
 RIAS II: 11.30 (Sun.), 18.30, 21.00 (W), 21.30 (Sun.).
 N. on 173 kc/s: W.: 04.30, 05.30, 06.30, 07.15, 11.00, 11.50, 20.00, 20.50.
 Sun.: 04.30, 05.30, 06.30, 07.30, 11.30, 20.00.
 Folklore Music: Fri. 18.30 (RIAS I) - Rel.: (RIAS I+II): Sun. 06.15,
 07.00, 07.35. W. 05.40. - L.L. English: Tues., Thurs. 14.30 (RIAS II),
 Wed., Fri. 09.30 (RIAS I). French: Mo., Wed. 14.30 (RIAS II), Tues.,
 Thurs. 09.30 (RIAS I).
 "Aus der Zone für die Zone": W. 18.15 (RIAS I), 18.45 (RIAS II).
 "Die Woche in Bonn": 11.00 (RIAS II), 12.30 (RIAS I).
 ANN.: "Hier ist RIAS-Berlin". - INT.-SIG.: From a Trio Sonata.



V. by QSL-card, addressed to: Hörerpost. - PUB.: Press service fortnightly, RIAS schoolbroadcast service every six weeks.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

AD: W. 05.30-06.40, 10.00-11.15. From 16.30 - ADDR.: Masuren Allee 8-14, Berlin Charlottenburg 9, (West Berlin). Cable: Sender Freies Berlin. Te.: 920251. - L.P.: Intendant: W. Steigner. Dir. Prgr.: H. H. Fischer. Dir. Adm.: H. Koch. Dir. Tec.: U. Blässer.

HOME SCE.:

Berlin 1st Prgr. 566 kc/s 530 m 20 kW - FM 90.0 mc/s 10 kW
 Berlin 2nd Prgr. 1484 kc/s 202 m 5 kW - FM 93.6 mc/s 10 kW
 1st Prgr.: Mo.-Fri. 03.55-03.30. Sat. 03.55-04.30. Sun. 04.58-03.30.
 N.: 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 08.00, 12.00, 16.00 (W)
 18.45, 21.00, 23.00. - Rel.: Sun. 09.00, W. 04.50.
 2nd Prgr.: Mo.-Fri. 15.00-23.35. Sat. 13.00-23.10. Sun. 06.58-00.05.
 N.: W. as 1st prgr. exc. 22.00 instead of 21.00. Sun. 07.00, 12.00, 18.45,
 22.00.

ANN.: "Hier ist der Sender Freies Berlin mit dem ersten Prgr. ... zweiten Prgr."

V. by QSL-card. - F.PI.: 100 kW m.w. tr. 1st Prgr. (566 kc/s).

ALLIED STATIONS

AMERICAN FORCES NETWORK. (United States Army)

The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment by means of radio broadcasting.

ADDR.: United States Army Element, American Forces Network, Europe APO 757, New York, N. Y., USA. Te.: Frankfurt 314.800. - L.P.: Commander, American Forces Network: Lt. Colonel R. Cranston. Prgr. Supervisor: D. Brewer. Tec. Supervisor: F. C. Mortensen.

STATIONS:	kc/s	m	kW		kc/s	m	kW
Munich*)	548	547	100	Bamberg	1304	230	0.25
Nürnberg*)	611	491	10	Berchtesgaden	1304	230	0.25
Grafenwöhr	611	491	10	Heidelberg	1304	230	1
Kaiserslaut.*)	611	491	10	Regensburg	1304	230	0.25
Frankfurt*)	872	344	150	Fulda	1304	230	0.25
Berlin*)	935	321	10	Wertheim	1304	230	0.25
Ansbach	1034	290	0.25	Birburg	1394	215	0.25
Bad Kissingen	1034	290	0.25	Garmisch	1502	199.7	0.25
Stuttgart*)	1106	271	100	Giessen	1502	199.7	0.25
Bremerhaven*)	1142	293	5	Straubing	1502	199.7	0.25
Hersfeld	1142	263	0.25	Rothwesten	1502	199.7	0.05
Schweinfurt	1142	263	0.25	Wildflecken	1502	199.7	0.05
Würzburg	1142	263	0.25	*)Studio Installations			
Füssen	1142	263	0.25				

FM: Berlin 99.75 Mc/s, Frankfurt FM 94.9 Mc/s 3.16 m 55 kW ERP. - D.PRGR.: 05.00 (Sun. 06.00)-00.05 - N.: Every h. on the h. - Local N.: Mo.-Fri. 17.15 - Wrp.: 05.00, 06.00, 11.15, 17.00, 19.15, 21.15. - Rel.: Sun. 09.30 (Catholic), 10.05 (Protestant). - Hymns from Home: Mo.-Fri. 05.05, 23.50.

ANN.: "This is AFN, The American Forces Network, Europe" announced at least every half hour. - INT.-SIG.: Every h. on the h. AFN announces the time and the sixth and final pip is exactly on the h. as announced. - V. by QSL-card.

BRITISH FORCES NETWORK (Military)

B.F.N. is operated by the War Office for the purpose of providing entertainment and a reliable news service for H. M. Forces in N.W. Germany and Berlin. It is a non-commercial organisation and does not accept advertising.

ADDR.: BFN, Cologne, British Forces Post Office 19. Te.: 381757. L.P.: St. Dir.: I. J. Woolf. S.P.O.: D. G. Philips. Dir. Tec.: A. L. Langford.

STATIONS: FM:

	mc/s kW		mc/s kW		mc/s kW
Langenberg	89.15 50	Bonn	91.4 2	Berlin	94.3 6
Nordhelle	89.15 15	Herford	92.9 6	Drachenberg	99.3 80
Verden	90.3 50				

English: 05.30 (Sun. 07.00)-22.30 (Sat. 24.00). - N. from BBC: 07.00, 08.00, 12.00, 18.00, 21.30. N. summaries on the half h. hourly. - N. of Germany: W.: 06.50, 12-10. - Rel.: Sun. 08.45, W. 06.55. - L.L.: (Oct.-April) "Sprechen Sie Deutsch" 09.00, 18.15. - Wrp.: 06.30, 07.10, 12.10, 18.15, 22.30.

ANN.: "This is the British Forces Network in Germany". - INT.-SIG.: British Army Bugle Call "Fall-in" played on Celeste.



V. by letter. Re. appreciated. R. p. - PUB. BFN: bulletin weekly.

Germany

RADIO FREE EUROPE (Private, non-comm.)

FL: By American contribution through the Radio Free Europe Fund.
 ADDR.: Radio Free Europe, Division of the Free Europe Committee,
 2 Park Avenue, New York 16, N.Y., USA. Cable: Nattecom, N.Y.
 Te.: LExington 2-8900. - Radio Free Europe Headquarters, 1
 Englischer Garten, München 22, Germany. Cable: Raduropa. Te.:
 229921. - New York office: 2 Park Avenue, New York 16, N.Y., USA.
 Cable: Nattecom, N.Y. Te.: LExington 2-8900. - Raret (Portugal
 relay base), Sociedade Anonima de Radio Retransmissao, Av. Padre
 Manuel da Nobrega 8-B, Lisbon. Cable: Raret. Te.: 721131.
 L.P.: Free Europe Committee (New York): Pres., John Richardson,
 Jr. RFE Headquarters (Munich): Dir.: C. Rodney Smith. Dir. of
 Engineering & Services: Russell E. Geiger. New York office: Dir.:
 C. Kaufmann. Dep. Dir. Engineering: M. L. Koerner. Portugal relay
 base (Raret): Man. Dir.: H. C. Lollot. Dir. of Engineering: P. W.
 Esten.

STATIONS:

Medium Wave: Holzkirchen 719 kc/s 417.2 m 135 kW.
 Short Wave: Eight s.w. tr.s in Biblis, Germany (10, 20, 50 kW), six
 s.w. tr.s in Holzkirchen, Germany (10 kW), and thirteen s.w. tr.s near
 Lisbon, Portugal (10, 50, 100 kW).

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3960	75.75	7155	41.93	9705	30.91	11885	25.24	15405	19.47
5960	50.37	7165	41.87	9712	30.89	11895	25.22	15420	19.46
5970	50.25	7175	41.80	9715	30.88	11915	25.17	17725	16.93
5985	50.12	7180	41.78	9717	30.87	11930	25.15	17735	16.92
5990	50.08	7192	41.72	9725	30.85	11940	25.13	17770	16.88
6015	49.88	7205	41.64	9750	30.77	15115	19.85	17805	16.85
6020	49.83	7225	41.52	11725	25.59	15135	19.82	17835	16.82
6095	49.22	7235	41.47	11735	25.56	15145	19.81	17840	16.82
6105	49.14	7245	41.41	11745	25.54	15170	19.78	17855	16.80
6125	48.98	7285	41.18	11755	25.52	15185	19.76	17875	16.79
6130	48.94	7295	41.12	11760	25.51	15195	19.74	17885	16.78
6160	48.70	7505	31.56	11775	25.48	15215	19.71	21485	13.97
6185	48.50	7595	31.27	11805	25.41	15255	19.66	21600	13.89
7105	42.22	9605	31.23	11815	25.39	15265	19.66	21620	13.87
7115	42.16	9655	31.07	11820	25.38	15295	19.61	21665	13.84
7140	42.02	9670	31.02	11830	25.36	15355	19.54	21720	13.81
7145	41.99	9695	30.95	11855	25.31	15365	19.53	21745	13.80

Most RFE frequencies are registered for use both in Germany and in
 Portugal and the selection of transmission location is a function of
 propagation conditions throughout the year.

D. PRGR. directed to Bulgaria, Czechoslovakia, Hungary, Poland,
 and Rumania:

BULGARIAN SCE.: 04.30-06.00 (Sun. 05.30-07.00), 17.00-18.00,
 20.00-22.00, 22.30-23.00 in 49, 41, 31, 25, 19, 16, and 13 m.b.: N.
 every h. on the h.

CZECH/SLOVAK SCE.: 03.57(Sun. 05.57)-22.00, 22.40-23.00 on
 417 m, and in 75, 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on
 the h.

HUNGARIAN SCE.: 04.20(Sun. 06.55)-22.00, 22.20-22.40 on 417 m,
 and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

POLISH SCE.: 03.55(Sun. 04.55)-22.20 on 417 m, and in 75, 49, 41,
 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

RUMANIAN SCE.: 03.00-04.30 (Sun. 04.00-05.30), 16.00-17.00,
 18.00-20.00, 22.00-22.30 in 49, 41, 31, 25, 19, 16, 13 m.b.: N. every
 h. on the h.

Meter band assignments change throughout the year as propagation
 conditions vary.

ANN.: Sign on and sign off: Bulgarian: "Took e Radio Svobodna
 Evropa" ("This is Radio Free Europe").

Czechoslovak: "Hlasi se vám ceskoslovenska stanice rozhlasu Svobodna Evropa" ("This is the Czechoslovak Station of Radio Free Europe calling").

Hungarian: "Itt a Szabad Europa Radiója" ("This is Radio Free Europe").

Polish: "Mówi rozgłosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe").

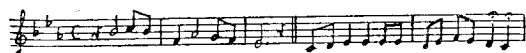
Rumanian: "Aici e Radio Europa Libera, Jurnalul vorbit al Romanilor de pretutinden" ("Here is Radio Free Europe, the spoken journal of all Rumanians").

INT.-SIG.:

Bulgarian: Part of Bulgarian National Anthem (Celeste):



Czech/Slovak: Czech and Slovak National Anthem (Celeste):



Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube":



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Rumanian folk tune. (Piano and Celeste):



V. by QSL-card. R.p.

RADIO FORCES FRANÇAISES DE BERLIN (FFB)

Relay station for entertainment of the French Forces in Berlin.
 ADDR.: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf - FM 96.75 mc/s 3 kW: Continuously exc. from 08.00-09.00 (Mo., Wed., Fri.) and Thurs. 23.00-Fri. 05.13. - Rel.: RTF prgrs.

CANADIAN FORCES NETWORK (Canadian Army)

ADDR.: Zweibrücken. - STATIONS: Söllingen 96.6 mc/s 0.05 kW, Werl/Soest 96.9 mc/s 0.25 kW, Zweibrücken 96.9 mc/s 0.05 kW. - D.PRGR.: 17.00-23.00.

RADIO LIBERTY (Pr. - Former Citizens of the U.S.S.R.)

R. Liberty speaks to the peoples of the U.S.S.R. and the Soviet Armed Forces as the free voice of their fellow countrymen abroad. R. Liberty is supported by the American Committee for Liberation, Inc., which derives its funds from private persons and organizations in the U.S.A. and which also operates the transmitting facilities.

ADDR.: Radio Liberty, Lilienthalstrasse 2, Munich 19. Cable: AmComLib. Te.: 62941 - or: American Committee for Liberation, Inc., 1657 Broadway, New York 19, New York, U.S.A. Te.: Judson 2-5620.

- L.P.: Headquarters, New York: President of the American Committee: H. Sargeant. Dir.: R. L. Network Division: S. Y. McGiffert. Chief Eng.: K. Owen. - Munich: Deputy to the Pres. Europe: R. F. Kelley. Dir. R. Liberty Division: R. Bertrandias.

STATIONS: Lampertheim 20/50 kw:

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3990	75.19	9565	31.36	11720	25.60	11965	25.07	15415	19.46
6055	49.55	9660	31.06	11760	25.51	15305	19.60	17720	16.93
6135	48.90	9665	31.04	11765	25.50	15340	19.56	17730	16.92
7130	42.08	9675	31.01	11825	25.37	15370	19.52	17750	16.90
7170	41.84	9720	30.86	11880	25.25	15395	19.49	17845	16.81
7245	41.41	9730	30.83	11935	25.14	15410	19.47	17865	16.79
								17875	16.78

D.PRGR.: 00.00-24.00. Prgr.'s prepared in Munich.

Target areas: E. Germany 75, 49, 41, 31, 25 m.b. - Hungary 75, 49, 41 m.b. - No. So. Russia, Byelo-Russia, Ukraine 49, 41, 31, 25, 19 m.b. - Tartaristan, Bashkiristan, Caucasus, Turkestan 41, 31, 25, 19, 16 m.b. - N.: Every h. on the h.

ANN.: Russian: "Govorit, Radiostantsiya Svoboda". - Ukrainian: "Hovoryt Radio Svoboda". - Byelorussian: "Havoryts Radiyo Svoboda". - Adyg: "Kā gushaaryr Sxafitynughā Radio Stantsiyem". - Armenian: Khosume "Azatutyun" Radiokanyān. - Avar: Kalala Radio "Erkenli". - Azerbeidyanian: Danishir "Adadlik" Radiosu. - Chechen-Inghush: Harayu Radio "Parghato". - Georgian: Lapaarakobs Radio Sadguri-Thavisu phleba. - Karachai-Balkar: Sōleshgen Azatik Radiostansiyasidi. - Kazakh: Sōylepturghan Azatik radiosi. - Kirgiz: Azattik radiocu süylöyt. - Osset: "Dzury Radio Sāribar". - Tadzik: Indjo Radio "Ozodi". - Tartar Bashkir: "Azatlyk Radiosyōili". - Turkmen: "Gepleyār Azattik Radiosi". - Uzbek: Azattik radiosi gapiradi. - INT.-SIG.: Hymn to Freedom - by Gretchaninoff.



V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN GERMANY

ADDR.: Voice of America, Washington 25, D.C., USA.

Long Wave: Munich-C 173 kc/s 1734 m 1000 kW: 04.00-07.30, 11.00-12.40, 15.00-00.05.

Medium Wave: Munich A 1196 kc/s 251 m 150 kW: 04.00-07.30, 17.00-23.30. - Short Wave: Munich 8/100 kW: 02.00-08.00, 11.15-22.45.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3980	75.38	6170	48.62	9635	31.14	11940	25.13
5960	50.34	7200	41.67	11775	25.48	15170	19.78
5975	50.21	9530	31.48	11830	25.36	15330	19.57
6040	49.67	9545	31.43	11870	25.27	21585	13.90
6140	48.86	9555	31.40				

DAILY PRGR.:

Long Wave:

04.00-07.30	RIAS	19.15-19.30	German	21.30-22.00	Polish
11.00-12.40	RIAS	19.30-20.00	Polish	22.00-00.00	English
15.00-17.00	RIAS	20.00-21.00	RIAS	00.00-00.05	RIAS
17.00-19.15	English	21.00-21.30	Russian		

Medium Wave:

04.00-04.30	English	17.00-18.30	English	21.00-21.15	Serb.
04.30-04.45	Serb.	18.30-19.00	Lithuan	21.15-21.30	Slovene
04.45-05.00	Musik	19.00-19.30	Serb.	21.30-22.00	Polish
05.00-07.30	English	19.30-20.00	Polish	22.00-22.30	English
		20.00-20.30	Eston.	22.30-23.00	Czech
		20.30-21.00	Latvian	23.00-23.30	Hung.

Short Wave: See USA.

ANN.: "This is the Voice of America Relay St. at Munich". - INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card. No return postage.

GERMAN DEMOCRATIC REPUBLIC

L.T.: GMT+1 h. - Pr.L.: German. - Po.: 17.298.165. - Revrs.: 5.601.400. - E.C.: 220 V., A.C., 50 c/s.

STAATLICHES RUNDFUNKKOMITEE (Go.)

ADDR.: Berlin-Oberschöneweide, Nalepastrasse 18-50. Cable: Funkkomitee. Te.: 63 28 31. L.P.: Dir. Gen.: Prof. Dr. H. Ley, Prof. G. Eisler. Dir. Adm.: H. Ebel. Dir. Tec.: W. Schmidt. Dir. Foreign Rel.: M. Müller. Intendant: K. Ehrlich (Deutschlandsender), H. Classen (Berliner Rundfunk), W. Kleintert (Radio DDR).

HOME SERVICES in German:

Deutschlandsender: 24 h.	656 kc/s	457.3 m	20 kW
185 kc/s 1621.6 m	200 kW	692 - 433.8	200 -
782 - 383.6	200 -	6115 - 49.06	20 -
728 - 412.1	200 -	7300 - 41.10	5 -

FM: Dequede 96.95 mc/s 1 kW - Inselfberg 97.15 mc/s 10 kW - Schwerin 97.3 mc/s 10 kW - Leipzig 96.55 mc/s 10 kW - Brocken 97.4 mc/s 10 kW - Sonneberg 97.6 mc/s 1 kW - Berlin 97.65 mc/s 3 kW - Stölpe 91.25 mc/s 1 kW.

N., Wrp.: D.: 01.00, 02.00, 03.00(W), 03.30(W), 04.00, 04.30(W), 05.00, 05.30(W), 06.00, 07.00, 09.00, 11.00(W), 12.00, 14.00(W), 16.00, 18.00, 21.00, 23.00, 24.00. - Comm.: W.: 18.42, 23.07(rep.). Sun.: 11.30, 23.07(rep.). - Folklore Music: Sun. 06.20 (2nd and 4th week), Mo. 09.25, Tues., Fri. 13.00, Thurs. 15.30, Sat. 10.30.

Berliner Rundfunk 1. Prgr.: 03.30-24.00(Sat. 01.00).

	kc/s	m	kW		kc/s	m	kW
Karl-Marx-St.	602	498	5	Reichenbach	912	328.9	35
Berlin	611	491	200	Plauen	1079	278.1	2

FM: Dresden 89.8 mc/s 10 kW - Leipzig 90.4 mc/s 10 kW - Marlow 99.85 mc/s 1 kW - Berlin 98.6 mc/s 10 kW - Sonneberg 99.5 mc/s 1 kW.

N., Wrp.: D.: 03.33(W), 04.00, 04.30, 05.00, 05.30, 06.30, 07.30(W), 09.30, 11.30, 12.30(Sun.), 15.30, 16.30, 18.30, 20.30, 22.30, 23.30. - Comm.: W.: 18.30, 23.35(rep.). Sun. 11.30. - Folklore Music: Sun.: 07.03, 12.50, Mo., Fri. 15.00, Tues. 07.40, Thurs. 15.55.

Berliner Welle: 1358 kc/s 220.9 m 200 kW: 15.30-23.15.

FM: Berlin 98.6 mc/s 10 kW.

N.: 16.00, 18.00, 22.00, 23.00. - Comm.: 18.00, 23.05(rep. W.).

Radio DDR I: 24 hours.

	kc/s	m	kW		kc/s	m	kW
Cottbus	520	576.9	5	Berlin	881	340.5	100
Schwerin	529	567.1	5	Dresden	1043	287.6	240
Greifswald	557	538.6	5	Suhl	1052	285.1	5
Leipzig	575	521.7	100	Seelow	1546	194.0	5
Erfurt	629	476.9	20	Bernburg	1570	191.1	

FM: Görlitz 95.4 mc/s 1 kW - Leipzig 88.45 mc/s 3 kW - Schwerin 92.75 mc/s 10 kW.

N.: 01.00, 03.05, 04.00, 05.00, 06.00, 07.00, 09.00, 10.00(Sun.), 11.00, 12.00, 13.00(Sat., Sun.), 15.00, 16.00, 18.00, 21.00, 23.00, 24.00(Sat.). - Comm.: Sun. 12.00, W. 18.00. - Folklore Music: Sun. 10.20, Mo.: 07.10, 15.20, Wed. 11.20, Thurs.: 07.20, 11.10.

Radio DDR II: D. 17.00(Sun. 16.05)-23.00.

FM: Marlow 91.05 mc/s 10 kW - Leipzig 93.95 mc/s 10 kW - Rheinsberg 95.25 mc/s 10 kW - Helptenberg 99.1 mc/s 1 kW - Karl-Marx-Stadt 92.9 mc/s 10 kW - Schwerin 94.6 mc/s 10 kW - Burg 98.15 mc/s 1 kW. - N.: 19.00, 21.00. - Comm.: W. 21.00.

RADIO BERLIN INTERNATIONAL:

EUROPEAN SERVICE:

6115¹⁾ kc/s 49.06 m 9675²⁾ kc/s 31.01 m
7300³⁾ - 41.10 - 9730⁴⁾ - 30.83 -

¹⁾ Königswusterhausen. ²⁾ Leipzig.

English: 18.00-18.30, 20.00-20.30, 22.00-22.30, 23.00-23.30. - French: 18.30-19.00, 20.30-21.00, 22.30-23.00. - Danish: 17.30-18.00, 19.00-19.30, 21.00-21.30. - Italian: 18.30-19.00 on 9730 kc/s. - Swedish: 17.00-17.30, 19.30-20.00, 21.30-22.00. - DX-prgr.: First Mo. in the month at 17.00.

NEAR EAST SERVICE:

Nauen 6080 kc/s 49.34 m 11765 kc/s 25.50 m
Leipzig 9730 - 30.83 -

Arabic: 04.00-06.00, 11.00-13.00, 17.00-20.00 on 9730/11765 kc/s. - German: 06.00-07.00, 13.00-16.00 on 9730/11765 kc/s, 20.00-23.00 on 11765 kc/s. - English: 16.00-16.30, 23.00-23.30 on 11765 kc/s.

AFRICA SERVICE: 16.15-17.45 on 12008 kc/s 24.98 m (Leipzig).

English: 16.15-17.00. - French: 17.00-17.45.

LATIN AMERICAN SERVICE (in Spanish, Portuguese, German): 00.00-06.00 on 6115/9675 kc/s.

ANN.: Home Service: "Hier ist der Deutschlandsender (Berliner Rundfunk)". "Hier ist Radio DDR mit seinen Sendern". - R. Berlin International: English: "This is Radio Berlin International the Voice of the German Democratic Republic". French: "Ici Berlin International, la République Démocratique Allemande vous parle". (Africa Sec.: "Ici R. Berlin International, la Voix de la République Démocratique Allemande"). Swedish: "Här är Radio Berlin International, Tyska Demokratiska Republikens sändning på Svenska". Danish: "Godaften De lytter til R. Berlin International. Den Tyske Demokratiske Republik sender til Danmark". Italian: "Qui Radio Berlino Internazionale, la voce della Repubblica Democratica Tedesca". Portuguese: "Radio Berlin Internacional, a voz da República Democrática Alemana". Spanish: "Habla Radio Berlin Internacional, la Voz de la República Democrática Alemana".

INT.-SIG.: Deutschlandsender: From "Die Meistersinger von Nürnberg" (Richard Wagner)



Berliner Rundfunk I: Motif from Opera "Regina" (Albert Lortzing) performed by 2 French horns.



Berliner Rundfunk II: Motif: Heimat wir lassen dich nicht from the cantata "Des Sieges Gewissheit" composed by the National-Prize-winner Ernst-Hermann Meyer performed by 3 trumpets.



Radio DDR I: "Wann wir schreiten Seit an Seit" ("mit uns zieht die neue Zeit").



Radio DDR II: Melody: "Mit uns zieht die neue Zeit".



Germany – Great Britain

Foreign Sec.: Theme from Ludwig van Beethoven's 9. symphony ("Freude, schöner Götterfunken"):



V. by QSL-card. – PUB.: "Unser Rundfunk" (weekly) free on request.

BROADCASTS OF THE COMMITTEE FOR RETURNING INTO THE HOME COUNTRY. For Russian immigrants in We. Europe. – ADDR.: Komitee für Rückkehr in die Heimat, Schadowstr. 1B, Berlin W8. Te.: 221480. – PRGR's in Russian and other languages of the USSR: Leipzig 1322 kc/s 226.9 m 100 kW: D. Prgr.: 05.00–06.00 (Sun. 08.00), 09.00–12.00 (Sun. only), 14.55–15.55, 20.00–20.30; also on 9730 kc/s Sun. 09.00–11.00. – ANN.: "Govorit Komitet sa woswrashtshenija na rodinu" or "Slushajte Golos sowjetskij rodini" – PUB.: Prgr.-sched. in Russian.

RADIO WOLGA (Russian Military Administration)

ADDR.: Menzelstr., Potsdam.

STATION: Königswusterhausen 263 kc/s 1141 m 20/150 kW: Relay R. Moscow I. D. 05.00–22.35 (Sat., Sun. 23.00). – N.: 05.00, 05.45, 14.00, 16.00, 22.00. – Wrp. for Germany: 05.30, 11.00, 14.58, 22.30. – ANN.: "Govorit Wolga".

★ GIBRALTAR (British Colony) ★

L.T.: GMT+1 h. – Pr.L.: English, Spanish. – Po.: 25.000. – Rcvrs.: 4.751. – E.C.: 240 V., A.C., 50 c/s.

RADIO GIBRALTAR (Go., Comm.)

FI.: By Go. and adv. – AD.: 4 h. per day. – ADDR.: British Colonial Secretariat, Gibraltar. Cable: R.Gibraltar. Te.: 2519. – L.P.: British Colonial Secretariat (Officer in Charge), Public Rel. Officer: E. H. Davis O. B. E. STATION: Wellington Front 1484 kc/s 202.2 m 0.5/1 kw. D.PRGR.: English, Spanish: W.: 07.55–09.30, 11.50–16.15 (Sat. 11.00–24.00). 17.55–24.00. Sun.: 07.55–16.15, 17.55–24.00. English: N.: 08.00 (W), 12.00 (not Sat.), 21.00. Wrp.: W. 08.25, 13.30. Sun. 08.30. Spanish: N.: 14.15, 22.15. – PUB.: Prgr. schedule free on request.

★ GREAT BRITAIN ★

L.T.: GMT (Su.: GMT+1 h.) – Pr. L.: English. – Po.: 50.383.000. – Rcvrs.: 15.335.193. – E.C.: 210/250 V., A.C., 50 c/s.

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FI.: The revenue for its Domestic Services is drawn from the license fees paid by listeners and viewers; the revenue for its External Services is provided by an Grant-in-Aid from the Treasury.

Weekly Pub.: "Radio Times", "The Listener", "London Calling", "Hier spricht London", "London Calling Europe" – Annuals: "The BBC Handbook".

ADDR.: Broadcasting House, London W. 1. Cable: Broadcasts, London. Te.: Langham 4468. – L.P.: Board of Management: Dir. Gen.: H. Carleton Green, O.B.E. Dir. of External Broadcasts: Sir Beresford Clark, K.C.M.G., C.B.E. Chief Asst. to Dir. Gen.: H.J.G. Grisewood, C.B.E. Dir. of Sound Broadcasts: R.E.L. Wellington, C.B.E. Dir. of TV Broadcasts: K. Adam. Dir. of Engineering: Sir Harold Bishop, C.B.E. Dir. of Adm.: J.H. Arkell, C.B.E.

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Regional Controllers: Controller, Wales, A. B. Oldfield-Davies, C.B.E. Controller, Midland Region: H. J. Dunkerley, C.B.E. Controller, Northern Ireland: R. C. McCall, C.M.G. Controller, Scotland: A. Steward, C.B.E. Controller, West Region: F. G. Gillard, O.B.E. Controller, North Region: R. Stead.

HOME SCE.: W. 06.45–23.36 approx. Sun. 07.50–23.63 approx.

		kc/s	m	kW
Cromer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghhead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	or Northern	–	–	0.25
Stagshaw	–	–	–	100
Scarborough	–	–	–	2

N.: 07.00 (W), 08.00, 09.00, 13.00, 18.00, 22.00, 23.00

Greenwich T.S.: 07.00 (W), 08.00 (W), 09.00, 11.00 (W), 13.00, 18.00, 23.00.

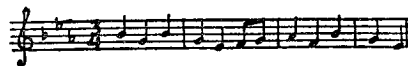
LIGHT PRGR.: W. 06.30–24.00. Sun. 09.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Droitwich	200	1500	400	Moorside Edge	1214	247	50
Brookmans Park 1214	247	50		Plymouth	–	–	0.25
Burghhead	–	20		Redmoss	–	–	2
Lisnagarvey	–	10		Redruth	–	–	2
Londonderry	–	0.25		Newcastle	–	–	2
				Westerglen	–	–	50

N.: Mo.–Fri.: 06.30 and every h. on the half h. until 23.30; 19.00, 23.55. Sat.: 06.30 and every h. on the half h. until 12.30; 19.00, 19.30, 20.30, 22.30, 23.30, 23.55. Sun.: 09.30, 19.30, 22.30, 23.55.

Greenwich T.S.: 06.45 (200 kc/s only), 09.00 (W), 10.00 (W), 12.00 (Sun.), 19.00, 22.30.

INT.-SIG.: Oranges and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration. Also, Harp arpeggio – choice of six harp interludes.

THIRD PRGR.: 20.00 (Sat. 18.00, Sun. 17.00)–23.00 approx. 647 kc 464 m: Daventry (150 kW); Edinburgh, Glasgow, Newcastle, Redmoss (2 kW). – 1546 kc 194 m: Belfast, Bournemouth, Dundee, Exeter, Stockton (0.25 kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1 kW).

NETWORK THREE: Mo.–Fri. starts between 18.00– and 19.00–20.00. Sat. 16.00–18.00. (Transmitters as for Third Prgr.)

FM	Home Sce.	Light Pr.	Third Pr.	kW	WER.P.
Wrotham (Kent)	93.5	89.1	91.3		120
Pontop Pike (Newcastle)	92.9	88.5	90.7		60
Divis (Belfast, N. Ireland)	94.5	90.1	92.3		60
No. Hessary Tor (So. Devon)	92.5	88.1	90.3		60
Meldrum (Aberdeenshire)	93.1	88.7	90.9		60
Holme Moss (No. England)	93.7	89.3	91.5		120
Sutton Coldfield (Birmingham)	92.7	88.3	90.5		120
Talconeston (Norwich)	94.1	89.7	91.9		120

FM	Home Sec.	Light Pr.	Third Pr.	kW.E.R.P.
Blaen Plwyf (We. Wales)	93.1	88.7	90.9	60
Wenvoe (So. Wales)	94.3*	89.95	96.8	120
	92.125**			
Rowridge	92.9	88.5	90.7	60
Kirk O'Shotts	94.3	89.9	92.1	120
Sandale (Carlisle)	94.7***	88.1	90.3	120
	92.5****			
Rosemarkie (Moray Firth)	94.0	89.6	91.8	3/12d
Llanddona (Anglesey)	94.0	89.6	91.8	3/12d
Llangollen (No. Wales)	93.3	88.9	91.1	5/11d
Isle of Man (Douglas)	92.8	88.4	90.6	3.3
Orkney	93.7	89.3	91.5	3/20d
Thrumster	94.5	90.1	92.3	0.1/10d
Peterborough	94.5	90.1	92.3	1/21d
Dover	94.4	90.0	92.4	0.5/6.5d

(*) Welsh Home Sec. (**) We. of England Home Sec. (***) Northern Home Sec. (****) Scottish Home Sec.

EXTERNAL SERVICES

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3952.5	75.90	9410	31.88	11800	25.42	17730	16.92
3975	75.47	9510	31.55	11820	25.38	17740	16.91
5975	50.21	9525	31.50	11840	25.34	17745	16.91
5990	50.08	9530	31.48	11860	25.30	17755	16.90
6010	49.92	9550	31.41	11880	25.25	17790	16.86
6035	49.71	9555	31.40	11890	25.23	17810	16.84
6040	49.67	9560	31.38	11910	25.19	17840	16.82
6050	49.59	9570	31.35	11920	25.17	17860	16.80
6060	49.50	9580	31.32	11930	25.15	17870	16.79
6070	49.42	9600	31.25	11945	25.12	17890	16.77
6080	49.34	9615	31.20	11955	25.09	18080	16.59
6090	49.26	9625	31.17	11960	25.08	21470	13.97
6110	49.10	9640	31.12	11965	25.07	21485	13.96
6125	48.98	9660	31.06	11970	25.06	21490	13.96
6140	48.86	9675	31.01	12040	24.92	21530	13.93
6150	48.78	9690	30.96	12095	24.80	21550	13.92
6165	48.66	9700	30.93	15070	19.91	21615	13.88
6170	48.62	9710	30.90	15110	19.85	21630	13.87
6175	48.58	9725	30.85	15130	19.83	21640	13.86
6180	48.54	9735	30.82	15140	19.82	21650	13.86
6195	48.43	9740	30.80	15180	19.76	21655	13.85
7110	42.19	9750	30.77	15210	19.72	21660	13.85
7120	42.13	9755	30.75	15230	19.70	21675	13.84
7130	42.08	9760	30.74	15260	19.66	21710	13.82
7135	42.05	9765	30.72	15300	19.61	21720	13.81
7140	42.02	9770	30.71	15310	19.60	21740	13.80
7150	41.96	9825	30.53	15360	19.53	25650	11.70
7185	41.75	9915	30.26	15375	19.51	25670	11.66
7200	41.67	11680	25.68	15390	19.49	25720	11.66
7210	41.61	11705	25.63	15400	19.48	25750	11.65
7220	41.55	11725	25.59	15420	19.46	25840	11.61
7230	41.49	11730	25.58	15435	19.44	25850	11.60
7250	41.38	11750	25.53	15447.5	19.42	25920	11.57
7260	41.32	11770	25.49	17695	16.95	26040	11.52
7280	41.21	11780	25.47	17700	16.95	26080	11.50
7325	40.96	11790	25.45	17715	16.93		

The above frequencies are shared between the European and Overseas Services and in addition the following frequencies on Long and Medium Waves are used in the European Services.

200 kc/s 1500 m 1295 kc/s 232 m FM: Berlin 87.6 mc/s
647 - 464 m 1340 - 224 -

The two columns below show the wavebands which the BBC expects to use during the months from October to March and April to September. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES:

In Albanian: Oct.-March m.b. April-Sept. m.b.
17.45-18.15 N., Prgr. 31, 25 19, 16

In Bulgarian:

04.30-04.45 N., Prgr. 75, 49, 41, 31, 25 41, 31, 25, 19, 16
10.30-10.45 N., Prgr. 25, 19, 16, 13 25, 19, 16, 13
14.30-14.45 N., Prgr. 25, 19, 16, 13, 11 25, 19, 16, 13
16.15-16.30 N., Prgr. 25, 19, 16, 13 25, 19, 16
20.30-21.00 N., Prgr. 49, 41, 31, 25 25, 19, 16

In Czech:

05.15-05.30 N. Tues., 1500, 464, 232, 224 1500, 49, 41, 31, 25
Thurs., Fri. 75, 49, 41, 31
Sun. 25, 19, 16
11.30-11.45 (CBC) 31, 25, 19, 16, 13
13.45-14.00 N. Prgr. 31, 25, 19, 16, 13
17.30-17.45 E. by R. 41, 31, 25
Sun., Tues., Thurs., Sat. 49, 41, 31
19.00-19.30 31, 25, 19
22.15-22.30 Mo., Tues. 232, 224, 75, 49, 41
Wed., Fri., Sat. 464, 232, 224, 49, 41, 31, 25

In Slovak:

05.15-05.30 Mo., Wed., 1500, 464, 232, 224 1500, 49, 41, 31,
Sat. 75, 49, 41, 31
11.45-12.00 N. Prgr. 31, 25, 19, 16
17.00-17.15 N. Prgr. 41, 31, 25, 19
22.15-22.30 Thurs., Sun. 232, 224, 75, 49, 41
31, 25

In English:

05.00-05.15 E. by R. 75, 49, 41, 31 49, 31, 25
06.00-06.30 N. Prgr. 464, 75, 49, 41, 31, 464, 49, 41, 31, 25, 19, 25

06.45-07.00 E. by R.

464, 232, 75, 49, 41 464, 232, 49, 41, 31, 25, 19
31, 25

09.15-09.30 Rel. Sec. (W)

10.15-10.30 Rel. Sec. (W) 31, 25

12.15-12.30 E. by R.

12.30-12.45 E. by Dict. 31, 25, 19, 16 41, 31, 25, 19, 16

12.45-13.00 N. Dict.

16.45-17.00 E. by R. 232, 49, 41, 31, 25 232, 31, 25, 19

17.15-17.30 E. by R.

232, 224, 49, 41, 31 232, 224, 41, 31, 25, 19, 16

17.30-18.15 N. Prgr.

18.15-18.30 Press Rev. 232, 224, 49, 41, 31 232, 224, 41, 31, 25, 19

19.45-20.00 E. by R.

20.00-20.15 Dictation 25, 19, 16

20.15-20.30 N. Dict.

21.15-21.30 E. by R. 224, 75, 49, 41, 31 224, 49, 41, 31, 25, 19

21.45-22.00 N.

232, 75, 49, 41 232, 49, 41, 31
232, 224, 75, 49, 41 232, 224, 49, 41, 31, 25

In Finnish:

15.30-16.00 (Sun.) 31, 25 31, 25

15.45-16.00 E. by R.

(Mo., Wed., Thurs., Sat.) 31, 25 31, 25

16.00-16.45 N. Prgr.

41, 31, 25 31, 25

19.30-19.45 N.

75, 49, 41 31, 25

In French:

05.15-05.45 464, 41 464, 41, 31

07.30-08.00

464, 75, 49, 41 464, 31, 25, 19

11.30-12.15

464, 41, 31 464, 31, 25, 19

18.30-19.30

224, 75, 49, 41 224, 41, 31, 25

In German:

04.45-05.15 N. Prgr. 1500, 232, 75, 49¹ 1500, 232, 49, 41, 31¹

05.45-06.30 N. Prgr. 1500, 232, 75, 49, 232, 49, 41, 31¹

12.30-13.00 Rel. (Sun.)

232, 31, 25, 19¹ 232, 31, 25, 19¹

12.30-12.45 N. (W)

232, 49 232, 41, 31

18.30-18.45 (CBC)

232, 75, 49, 41 232, 31, 25¹

18.45-19.00 "Lert E."

19.00-21.15 N. Prgr. 232, 75, 49, 41¹ 232, 41, 31

In Greek:

05.00-05.15 N. Prgr. 41, 31 31, 25, 19

12.45-13.00 N. Prgr.

16, 13 25, 19, 16

18.30-19.00 N. Prgr.

25, 19 19, 16

20.15-20.30 E. by R.

(Sun., Mo., Wed., Fri.) 49, 31 31, 25

In Hebrew:

17.15-17.45 N. Prgr. 31, 25, 19 25, 19, 16, 13

In Hungarian:

04.45-05.00 N. 464, 75, 49, 41, 464, 41, 31, 25, 19, 16

31, 25 75, 49, 41, 31 41, 31, 25, 19, 16

05.45-06.00 N.

12.00-12.15 N. Prgr. 31, 25, 19, 16, 13, 25, 19, 16, 13

13.00-13.15 N. Prgr.

31, 25, 19, 16, 13 — 25, 19, 16, 13

14.00-14.15 N. Prgr.

— 41, 31, 25, 19, 16 31, 25, 19, 16

16.45-17.00 N. Prgr.

49, 41, 31, 25 31, 25, 19

19.30-20.00 N. Prgr.

224, 75, 49, 41 224, 41, 31, 25

21.30-21.45 N. Prgr.

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Great Britain

In Italian:

12.15-12.30 N. Press Rev.	19, 16	31, 25, 19
18.30-19.00 N. Prgr.	41, 31, 25	31, 25
21.00-21.45 N. Prgr.	49, 41	31, 25

In Polish:

04.30-04.45 N. Prgr.	—	1500, 464, 49, 41, 31
05.30-05.45 N. Prgr.	1500, 464, 232, 224	49, 41, 31, 25
	75, 49, 41, 31	
06.30-06.45 N., Prgr.	75, 49, 41, 31	—

12.45-13.00 E. by R.

(Wed., Sat.)

13.00-13.15 N. Prgr.

13.15-13.30 (CBC)

14.00-14.15 N., Prgr.

17.15-17.30 N., Prgr.

18.15-19.00 N., Prgr.

21.00-21.30 N., Prgr.

22.00-22.15 N., Prgr.

In Rumanian:

04.15-04.30 N., Prgr.

10.15-10.30 N., Prgr.

14.15-14.30 N., Press Rev.

16.00-16.15 N., Prgr.

19.00-19.30 N., Prgr.

21.45-22.00 N., Prgr.

In Russian:

03.30-03.45 CBC

03.45-04.15

15.00-15.30 N., Prgr.

15.30-15.45 Mo., Wed.,

Thurs., Sat.

15.45-16.00 Tues., Fri.

17.00-17.15 E. by R.

17.45-18.15 N., Prgr.

20.30-21.00 N., Prgr.

In Spanish:

13.15-13.30 N., Prgr.

21.15-22.00 N., Prgr.

22.00-22.15 (Mo., Wed.,

Thurs., Fri.)

In Turkish:

05.30-05.45 N., Prgr.

15.45-16.00 N., Prgr.

19.00-19.30 N., Prgr.

20.15-20.30 E. by R.

(Tues., Thurs., Sat.)

In Serbo-Croat:

13.15-13.30 N., Prgr.

13.30-13.45 (Sun.)

13.30-13.45 E. by R.

(Mo., Wed.)

14.45-15.15 Slovene (Sun.)

16.30-16.45 N., Prgr.

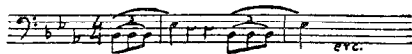
18.15-18.30 Slovene

19.30-20.15 N., Prgr.

) also 87.6 mc/s Berlin.

GREENWICH T.S. at the h. are radiated on one or other of the European Prgr.s on the long, medium or s.w. normally scheduled at 05.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 21.00, 22.00. - Big Ben: 12.00.

ANN.: E.: "This is London calling in the European Service of the BBC". - **Fr.:** "Ici Londres". - **G.:** "Hier ist England". - **I.:** "La Voce di Londra". - **INT.-SIG. for European Service:** Morse Signal "V" (V for Victory) played on Timpani (i.e. ...).



OVERSEAS SERVICES:

GENERAL OVERSEAS SERVICE:

The General Overseas Service, which operates for 22 1/4 hours a day, (03.30-08.00, 09.15-03.00) and which can be heard at suitable listening times all over the world, is addressed to English-speaking listeners wherever they may be. All Prgr.s are in English. The Times at which the General Overseas Service is directed to various parts of the world and the appropriate wavebands are:

Australia:	Oct.-March m.b.	April-Sept. m.b.
06.00-08.00	41, 31, 25	31, 25
09.15-11.30	16, 13	19, 16
20.00-22.15	41, 31	31, 25

N. Zealand:	Oct.-March m.b.	April-Sept. m.b.
06.00-08.00	31, 25	31, 25
09.15-11.30	19, 16	19, 16
20.00-22.15	31, 25	31, 25

Japan, N. China, NW Pacific:
09.15-11.30

So. Ea. Asia, India, Pakistan, Ceylon:
00.00-00.30

01.45-02.15

09.15-18.15

23.00-23.15

41, 31

E. Africa, Arabia, Cyprus, Egypt, Israel, Jordan, Lebanon, Sudan, Turkey:
03.30-08.00

09.15-21.15

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O. I. R. T.

Review of the International Radio and Television Organization (O. I. R. T.):

RADIO & TELEVISION

published in English, French, Russian, Chinese and German brings every 2 months valuable information on the world of Broadcasting and Television.

Subscription: The International Radio and Television Organization (O. I. R. T.),
Liebknechtova 15, Praha 5, Czechoslovakia.

PACIFIC SERVICE: Oct.-March m.b. April-Sept. m.b.
Australia, New Zealand in English daily: 31, 25, 19 31, 25, 19
08.00-08.45

ASIAN SERVICE:

China and Japan:

11.00-11.30 25, 19, 16 19, 16
12.00-12.45 16, 13 19, 16

South East Asia:

10.30-13.00 13, 11 16, 13
13.15-13.45 13, 11 16, 13

India, Pakistan, Ceylon:

13.45-15.45 19, 16, 13 16, 13

Iran:

16.15-17.00 25, 19, 16, 13 19, 16, 13

East Africa*:

10.30 Indonesian, 11.00 Japanese, 11.30 Vietnamese, 12.00 Kuoyu, 12.30 Cantonese, 12.45 Malay, 13.15 Burmese, 13.45 Sinhalese (Tues. and Fri.), Tamil (Sun. and Thurs.), Bengali (Mo., Wed., Sat.), *14.15 Urdu, 15.00 Hindi, 16.15 Persian.

ARABIC SERVICE:

M. East: 03.45-05.45 41, 31, 25
11.00-21.00 41, 25, 19, 16, 13
Ea. Africa: 03.45-05.45 31, 25, 19
11.00-21.00 16, 13, 11
No. Africa: } 04.45-05.45 49, 41, 31
Morocco: } 11.00-21.00 31, 25, 19

SCE. TO E.AFRICA: m.b.

03.30-03.45 Swahili 41, 31, 25, 19
09.45-10.00 English¹ 16, 13, 11
10.00-10.15 Swahili 16, 13, 11
10.15-10.30 Somali 16, 13, 11
10.30-10.45 English² 16, 13, 11
10.45-11.00 English³ 16, 13, 11
14.30-15.00 Somali 16, 13, 11
15.45-16.15 Swahili 16, 13, 11
1) Sat.; 2) Wed.; 3) Mo.; 4) 2nd Tues. of the month; 5) Sun. & Thurs.

SCE. TO WE. AFRICA: m.b.

11.00-11.45 English 16, 13, 11
11.45-12.00 Hausa 16, 13, 11
13.45-14.00 Hausa 16, 13, 11
SCE. TO MAURITIUS:
10.45-11.00 Engl. & French⁴ 16, 13, 11

SCE. TO SO. AFRICA:

10.45-11.00 English⁵ 16, 13, 11

SCE. TO RHODESIA & NYASALAND:

Oct.-March m.b. April-Sept. m.b.
09.45-10.00 English (Thurs.) 13, 11 16, 13

SCE. TO WEST- & EQUATORIAL AFRICA: All year round

French: m.b.
05.15-05.45 41, 31, 25, 19
07.30-08.00 25, 19, 16, 13
12.00-13.30 19, 16, 13, 11
18.30-19.30 31, 25, 19, 16

SCE. TO MALTA:

09.45-10.00 Maltese (exc. Thurs., Fri., Sat.) 19, 16

SCE. TO FALKLAND ISLANDS:

Oct.-March m.b. April-Sept. m.b.
22.00-22.30 (Sun. only) English 31, 25 25, 19

SCE. TO W. INDIES:

22.15-22.45 English 31, 25, 19 25, 19, 16

NORTH AMERICAN SCE.:

Canada, USA, Mexico:

14.30-17.00* 19, 16, 13 19, 16
*) English exc. 15.07 Fri., 16.45-16.50 (Mo., Fri.), 16.37-16.45 (Thurs.) when French.

LATIN AMERICAN SERVICE:

C. Am., S. Caribbean Area, So. Am. (No. of Amazon):

Spanish: 00.15-03.15 49, 31, 25 31, 25, 19
Portuguese: 23.00-00.15 31, 25, 19 25, 19, 16
Mexico:

Spanish: 01.15-03.15 49, 31 31, 25
So. Am. (So. of Amazon):
Portuguese: 23.00-00.15 25, 19 19, 16
Spanish: 00.15-02.15 25, 19, 16 25, 19, 16

N. in Spanish: 00.15, 01.00, 02.00, 03.00.

N. in Portuguese: 23.00, 00.00.

BBC FAR EASTERN STATION: see Singapore.

EAST MEDITERRANEAN RELAY: see Cyprus.

CENTRAL MEDITERRANEAN RELAY: see Malta.

EAST AFRICAN RELAY: see Somali.

VOICE OF AMERICA RELAYS IN GREAT BRITAIN (BBC)

ADDR.: Voice of America, Washington 25, D.C., U.S.A.

DAILY PRGR.: Blue Stars Network: 14.00-22.00.

15.00-15.30	Russian	18.30-19.00	Estonian
15.30-16.00	Ukrainian	19.00-19.30	Russian
16.00-16.30	Polish	19.30-20.00	Polish
16.30-17.00	Lithuanian	20.00-20.30	Russian
17.00-17.30	Russian	20.30-21.00	Czech
17.30-18.00	Latvian	21.00-21.30	Russian
18.00-18.30	Russian	21.30-22.00	French (to W. Africa)

Grey Stars Network: 15.00-22.00.

14.00-14.30	Georgian	18.30-19.00	Hungarian
14.30-15.00	Armenian	19.00-19.30	Serbo-Croat
15.00-15.30	Georgian	19.30-20.00	Bulgarian
15.30-16.00	Armenian	20.00-20.30	Albanian
16.00-16.30	Russian	20.30-21.00	Rumanian
16.30-17.00	Bulgarian	21.00-21.15	Serbo-Croat
17.00-17.15	Slovene	21.15-21.30	Slovene
17.15-17.30	Greek	21.30-22.00	Hungarian
17.30-18.00	Rumanian		

ANN.: The BBC announces its relay of the Voice of America program-ming stating the language and relay frequencies. - V. by QSL-card.

★ GREECE ★

L.T.: GMT + 2 h. - Pr. L.: Greek. - Po.: 8.000.000. - Rcvrs.: 860.857 (31/7/61). - E.C.: 220 V., A.C., 50 c/s.

NATIONAL HELLENIC BROADCASTING INSTITUTE

(Ethnikon Idhryma Radhiophonias, Go. Statutory Body of Public Law). - FL: By license payment and adv.

ADDR.: 4, Righillia St., Athens (K). Studios: Zappeion Bldg., Athens (K). Cable: Radiost. Athens. Te.: 74151. - L.P.: Pres. of the Adm. Council: G. Sophronopoulos. Dir. Gen.: C. Bastias. Dep. Dir. Gen. & Dir. Adm.: A. Margaritis. Dir. Tec.: V. Aslanides.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Athens (Nat.)	728	412.1	150	Volos*	1484	202.2	1
Athens (2' Prgr.)	1385	217.0	50	Rodos*	1493	201.0	5
Athens (3' Prgr.)	665	451.2	15	Patras*	1511	198.5	0.2
Corfu*	1007	298.0	50	Chania*	1511	198.5	5
Thessaloniki*	1043	287.6	5	Amalias*	1562	192.1	1.25
Comotini*	1403	213.8	5	*Nat. & Reg.			

NAT. PRGR.: Wi.: W. 05.00-08.02, 10.30-23.02 (Sat. 00.02). Sun. 05.00-23.02; Su.: W. 05.00-08.02, 10.30-13.15, 15.00-23.02 (Sat. 00.02). Sun. 05.00-23.02.

N.: Wi.: 05.15, 05.45*, 07.00 (W), 08.00 (W), 11.00, 12.30 (W), 16.00, 16.58 (W), 18.00**, 19.30, 22.00. Su.: 05.15, 05.25*, 07.00 (W), 08.00, 11.00, 12.30 (W), 16.00, 16.58 (W), 18.00**, 19.30, 22.00. - * English & French. ** incl. Newsreel.

Wrp.: Wi.: W. 05.25, 13.30. Su.: W. 05.25, 12.43, 18.18, 22.05; Sun. 11.15, 18.18, 22.05.

2' PRGR.: Wi.: 05.00-13.15, 15.00-21.30 (Sun. 05.30-21.30). - Su.: W. 05.00-07.00, 08.00-13.15, 15.00-21.30. Sat. 05.00-07.00, 10.30-13.15, 15.00-21.30 (Light prgr. only).

3' PRGR.: D.: 17.00-22.00. (Serious musical prgr.s only).

NAT. PRGR. & REG.: D. Morning, Midday, and Evening Prgr. (Reg. and Rel. National Prgr. 728 kc/s). Approx. h. of tr.: As Nat. Prgr.

ANN.: Nat. Prgr.: "Ethnikon Proghramma". 2' Prgr.: "Dhēfteron Proghramma". - 3' Prgr.: "Triton Proghramma" - Reg. Prgr.: "Edho" ... (Athina, Kérkyra, Thessaloniki, Patras etc.). (This is ... (Athens, Corfu, Salonika, Patras etc.).

STATION-SIG.: Used by all m.w. stations of NBI: "Tsopanagos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells.



INT-SIG.: "Musical Box", played on vibraphone.

FOREIGN SERVICE: Athens - 7.5/5kW.

5960 kc/s	50.34 m	9605 kc/s	31.20 m	17745 kc/s	16.90 m
6075 -	49.38 -	11720 -	25.60 -	17780 -	16.87 -
6175 -	48.58 -	11925 -	25.15 -	21485 -	13.96 -
7140 -	42.01 -	15345 -	19.55 -	21565 -	13.91 -
7295 -	41.12 -	15425 -	19.44 -	25645 -	11.69 -
				25965 -	11.55 -

D.PRGR. S':

Time	Area	kc/s	Language
07.00-08.15(W)	Cyprus	9605/11720	Greek ¹)
05.45-08.15(Sun.)		9605/11720	
09.00-10.00 ²)	Egypt	9605/11720	Greek
10.30-13.00	Cyprus	9605/11720	Greek

Greece – Holland

Time	Area	kc/s	Language
13.30–15.15	Turkey/Balkans	7295/9605	^{a)}
16.00–17.00	Cyprus/N. East	7295/9605	Greek ^{a)}
17.15–17.45	France/England	11720/15345	French/English
18.15–18.45	Cyprus	7295/9605	Greek
19.00–19.45	No. We. Europe	9605/11720	Greek
22.00–22.30	Mediterr.	9605/11720	Greek ^{b)}
23.00–23.30	Mediterr.	9605/11720	Greek ^{b)}

¹⁾ N. at 07.00. ²⁾ exc. Mo. ³⁾ Turkish, Serbian, Rumanian, Bulgarian, Albanian. ⁴⁾ 16.00–16.20 N. at dictation speed. ⁵⁾ N. Te. Messages to Shipping. ⁶⁾ Rep. of 22.00–22.30 prgr. – Other prgr.'s consist of Nat. Music, Talks and Features.

ANN.: Gr.: "Edho Radhiophonikós Stathmós Athinón Vrachéon Kymátōn". – E.: "This is Radio Athens the Voice of Greece". – F.: "Ici Radio Athènes la Voix de la Grèce".

STATION SIG.: See Home Sec. – V. by letter. – PUB.: "Radhioprogramma" (weekly in Greek).

FORCES BROADCASTING STATIONS (Greek)

ATHENS (Central) – FI.: By adv. only – ADDR.: Radhiostathmós Enoplon Dhynameon, 136-Messoghion St., Athens T. No.: 662929. L.P.: St. Dir.: E.P. Steriopoulos. Dir. Tec.: E.S. Tsamoussis.

STATIONS 1313 kc/s 228.4 m 20 kW – 6045 kc/s 49.63 m 5 kW. D.PRGR.: Wi.: W. 05.00–08.00, 10.00–20.30, Sun. 05.00–22.00 – Su.: W. 04.30–08.00, 10.00–13.15, 15.15–23.00, Sun. 04.30–23.00. N.: D. 06.00(Su. 05.00), 12.55, 18.50 – Nat. Music: 06.50, 10.00, 13.20 – Rel. (Orthodox): Sun. 06.30–10.00.

ANN.: "Edhó Athinai, Kendrikós Radhiophonikós Stathmós Enóplon Dhynameon Helládhos" (This is Athens, the Central Radio Station of the Greek Armed Forces).

STATION SIG.: The main motif from the march "Greece never dies", played on trumpets



V. by QSL-card or letter.

	kc/s	m	kW.H. of tr.	
Florina	1142	262.7	1	05.30–07.00, 10.00–13.00, 15.30–19.00
Jannina	7094	42.28	0.3	05.00–07.00, 09.30–12.30, 15.30–21.00
Kavalla	1355	221.3	0.2	05.00–08.00, 10.00–13.00, 15.30–21.00
Kavalla	7214	41.58	0.5	05.00–08.00, 10.00–13.00, 15.30–21.00
Kozani	6135	48.90	0.5	05.00–07.00, 10.00–13.00, 16.00–20.30
Larissa	5955	50.38	0.5	05.00–07.00, 10.00–13.00, 16.00–21.00
Serrai	7161	41.89	0.5	05.00–07.00, 10.00–12.30, 16.00–21.00
Thessaloniki	1169	256.6	1	05.00–07.00, 10.00–13.00, 15.00–21.30
Tripolis	6003	49.97	0.5	05.00–07.00, 09.30–12.30, 15.30–21.00

PRIVATE BROADCASTING STATIONS

Chios	6590 kc/s	45.52 m	0.1 kW	17.00–20.30
Karpenission	6525	45.98	0.3	17.00–21.00
Megara	1186	253.0	0.06	05.30–07.00, 10.30–12.30
Mytilini	6240	48.07	0.1	17.00–20.30
Sparta	1236	242.7	0.05	17.30–21.00

ADDR.: Idiotikos Radiostathmos ... (and name of Town).

AMERICAN FORCES RADIO SERVICE (A.F.R.S.): See USA.

VOICE OF AMERICA RADIO STATION IN GREECE

ADDR.: Voice of America, Washington 25, D.C., U.S.A.

STATIONS:

M.W.: Thessaloniki-A 791 kc/s 379.2 m 50 kW: 10.30–13.30, 15.30–23.00. – S.W.: Thessaloniki 35 kW: 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
5995	50.04	6155	48.74	9635	31.14	11760	25.51
6040	49.67	7205	41.64	11730	25.58	11840	25.34

DAILY PRGR.: Medium Wave:

08.15–10.30 Greek (R. Thessaloniki). Sunday only	18.30–19.00 Hungarian
10.30–13.50 Greek (R. Thessaloniki)	19.00–19.30 Serbo-Croat
	19.30–20.00 Bulgarian
15.30–17.00 Greek (R. Thessaloniki)	20.00–20.30 Albanian
	20.30–21.00 Rumanian
17.00–17.15 Music	21.00–21.15 Serbo-Croat
17.15–17.30 Greek	21.15–22.15 Greek (R. Thessaloniki)
17.30–18.00 Rumanian	22.15–22.30 Serbo-Croat
18.00–18.30 Bulgarian	22.30–23.00 Hungarian

Short Wave: See U.S.A.

ANN.: "This is the Voice of America Relay St. at Thessaloniki" – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

VOICE OF AMERICA SEABORNE RADIO STATION DODECANESE ISLANDS

Seaborne Radio Station aboard U.S.C.G.C. "COURIER", currently located at the Island of Rhodes.

ADDR.: Voice of America, Washington 25, D.C., U.S.A.

STATIONS:

M.W.: Courier-A 1259 kc/s 238.3 m 150 kW: 04.00–07.30, 16.00–22.30. S.W.: Courier 35 kW: 04.00–07.30, 14.00–22.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6185	48.50	7265	41.29	9530	31.48	11805	25.41
7125	42.11						

DAILY PROGRAMMES:

04.00–06.00 Arabic 14.30–15.00 Armenian 16.30–17.00 Turkish
06.00–07.30 English 15.00–15.30 Georgian 17.00–21.00 Arabic
14.00–14.30 English 16.00–16.30 English 21.00–22.30 English
ANN.: "This is the Voice of America Relay St. at Rhodes". – INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

★ GREENLAND (Danish Territory) ★

(See No. America).

★ HOLLAND ★

L.T.: GMT+1 h. – Pr.L.: Dutch – Po.: 11.544.00 Revers.: 3.124.475 (1/7/61) – E.C.: 220/380 V., A.C., 50 c/s.

HOME SERVICE

ADDR.: Stichting Nederlandsche Radio Unie, The Dutch Radio Union, P.O. Box 150, Hilversum. Cable: Radiounie.

The Dutch prgr.s for home are provided by the following broadcasting societies:

A.V.R.O.: Algemeene Vereeniging Radio-Omroep, Head Office Amsterdam, Keizersgracht 107. Studios: Hilversum, 's-Gravelandseweg, 52 – L.P.: Chairman: Jhr. Th. Röell. Sec.: H. A. Wassenbergh LL.D.

Treasurer: E.A. Timmer. Man. Dir. (Sound & TV): D. Repko. K.R.O.: Katholieke Radio-Omroep; Head Office: Amsterdam, Keizersgracht 151. Studios: Hilversum, Emmastraat 52 – L.P.: Chairman:

H.W. van Doorn LL.D. Sec.: Dr. Ir. L.J.N. van der Hulst. Treasurer: C. Burger. Man. Dir. (Sound & TV): Drs. A.J.J. v.d. Made.

N.C.R.V.: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum – L.P.: Chairman: A. B. Roosjen LL.D. Sec.: C. A. Keuning. Man. Dir. (Sound & TV): A. H. v. d. Veen LL.D.

V.A.R.A.: Omroepvereniging VARA, Heuvellaan 33, Hilversum – L.P.: Chairman: J. A. W. Burger LL.D. Sec.: Treas.: J. W. Lebon. Prgr. Sec. (Sound): J. B. Broeks. Prgr. Sec. (TV): J. W. Rengelink.

V.P.R.O.: Vrijzinnig Protestantse Radio-Omroep, 's-Gravelandseweg 65, Hilversum – L.P.: Chairman: Dr. J. A. de Koning. Sec.: Dr. E. D. Spelberg. Treasurer: Ir. K. Kooy. Man. Dir.: Dr. E. D. Spelberg (Sound). Drs. J. A. van Nieuwenhuysen (TV). Central Address for Prgr. Publications: Central Bureau voor den Omroep in Nederland, Hilversum, P.O. Box 52 (for Sound & TV).

BOARD OF THE NEDERLANDSCHE RADIO-UNIE: Chairman: A. B. Roosjen LL.D. Sec.: J. W. Lebon. Treasurer: Jhr. Th. Röell. Members: Dr. J. A. de Koning, J. B. Broeks, Drs. A. J. J. v. d. Made, D. Repko, H. W. van Doorn LL.D., A. H. v. d. Veen LL.D.

STATIONS:

Hilversum I: 746 kc/s 402.1 m 120 kW – II: 1007 kc/s 297.9 m 120 kW. Rel.: Hengelo, Hoogezaand, Hulsberg: 1594 kc/s 188 m 7.5 kW.

FM-relay-st.'s: (I=relay Hilversum I; II=relay Hilversum II). Hoogezaand 91.8 mc/s (I), 94.9 mc/s (II) – Hulsberg 95.1 mc/s (I), 97.5 mc/s (II) – Irnsum 88.2 mc/s (I) – 97.2 mc/s (II) – Markelo 96.2 mc/s (I), 98.3 mc/s (II) – Mierlo 93.5 mc/s (I), 99.9 mc/s (II) – IJsselstein 92.6 mc/s (I), 96.8 mc/s (II).

D.PRGR.: Hilversum I & II: W. 06.00–23.00 Sun. 07.00–23.00. N.: 1st and 3rd quarter: Hilversum I: D.: 06.00(W), 07.00, 12.00, 17.00(W), 18.45 (Sun.), 21.30, 22.55. – Hilversum II: D.: 06.00 (W), 07.00, 12.00, 16.50 (Sun.), 18.00 (W), 21.30, 22.55.

2nd and 4th quarter: Hilversum I as Hilversum II – Hilversum II as Hilversum I.

INT.-SIG.: Three first bars from the National Anthem "Wilhelmus van Nassau"



V. by QSL folder.

RADIO NEDERLAND WERELDOMROEP (non-comm.)

FL: By license payments. - ADDR.: Radio Nederland, P. O. B. 222, Hilversum. Office: Witte Kruislaan 55, Hilversum. Cable: Mundivox. Te.: 16151. - L.P.: Dir. Gen.: L. F. Tijnstra. Deputy Dir. Gen.: C. J. Strop. Directors: Central Prgr. Sec.: J. W. Acda. N. Sec.: M. L. Snyders. Dutch Sec.: F. Thors. International Sec.: H. J. P. J. van Eijndhoven. Transcription Sec.: Lod. Prins. Dir. Tec.: V. J. de Grijs. Producer "Happy Station" Prgr.: Edw. Startz.

STATIONS: Lopik WO1 50 kW; WO2, 3, 4 100 kW; WO5 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
5980	50.17	9730	30.83	11800	25.42	15425	19.45	21480	13.96
6020	49.83	9745	30.78	11915	25.18	15445	19.43	21565	13.91
6025	49.79	11711	25.62	11935	25.14	17775	16.88	21625	13.87
6085	49.30	11730	25.58	11950	25.10	17800	16.85	21715	13.82
9590	31.28	11755	25.52	15220	19.71	17810	16.84	25610	11.71
9715	30.88	11780	25.47	15365	19.52	17840	16.82	26040	11.51

OPERATION SCHEDULE: I=So. Africa; II=M. East, Europe; III=No. Africa; IV=No. America; V=New Zealand, We. No. America; VI=Australia, Netherlands New Guinea; VII=Africa, Far East, Europe; VIII=So. Ea. Asia, Europe; IX=M. East; X=Netherlands Antilles, Surinam; XI=Africa, Europe; XII=We. Africa; XIII=Netherlands New Guinea, Ea. Australia; XIV=So. America (South); XV=Indonesia, We. Australia, Europe; XVI=So. America (North), We. Indies; XVII=New Zealand, Australia; XVIII=So. Asia; XIX=No. America, Europe; XX=Indonesia, Europe; XXI=Mexico; XXII=Spain, No. Africa; XXIII=Europe, Far East; XXIV=Africa, So. Asia, Europe; XXV=So. America, Europe.

Frequencies in brackets are possible substitutes.

Afrikaans	Areas	Oct.-April kc/s	May-Sept. kc/s
15.30-16.20 (W)	I	21480, 17775	21480, 17775
Arabic			
16.00-17.50 (D)	II	17775, 15220, 6020	17775, 15220, 6020
18.00-19.50 (D)	III	11730, 9590	11730, 9590
Dutch:			
01.30-03.20 (D)	IV	9715, 6085	9715, 6085 (11730)
06.00-07.00 (D)	V	11730, 9590, 9715	11730, 9590, 9715
08.00-09.00 (D)	VI	11730, 9715	11730, 9715
09.00-10.20 (Sun.)	VII	21480, 21565, 6020	21480, 17810, 6020

Dutch	Areas	Oct.-April kc/s	May-Sept. kc/s
13.00-14.50 (D)	VIII	21625, 15425, 6020	17810, 15425, 6020
16.30-16.50 (W)	IX	17810, 15425	17810, 15425
17.00-18.20 (W)	X	21480, 17775	21480, 17775
17.30-19.20 (D)	XI	15425, 11950 (17810), 6020	15425, 11950, 6020
20.00-20.20 (W)	XII	11730, 9590	11730, 9590
20.30-20.50 (D)	XIII	11730, 9715	11730, 9715
21.00-22.50 (W)	XIV	15425, 11730	17775, 15425
21.00-22.20 (Sun.)	IV	11730, 9590	15220, 11730
22.30-22.50 (D)	XV	11730, 9715, 6020	11730, 9715, 6020
23.00-01.20 (D)	XVI	11730, 9715, 6020	15425, 11730, 6020
English			
01.30-02.20 ¹⁾	IV	9590, 6025	11730, 9590 (6025)
07.00-07.50 (W)	XVII	11730, 9590	11730, 9590
14.00-14.50 (W)	XVIII	21565, 15445	17775, 15445
19.30-20.20 (W)	XI	15425, 11950, 6020	15425, 11950, 6020
21.30-22.20 (W)	XIX	11730, 9590, 6020	15220, 11730, 6020
Indonesian			
12.30-13.30 (D)	XX	21565, 15445	17810, 15445
Spanish			
00.30-01.20 ¹⁾	XVI	11800, 9715	11800, 9715
02.30-03.20 ¹⁾	XXI	9590, 6025	9590, 6025 (11730)
20.30-21.20 (W)	XXII	9590, 6020	9590, 6020
23.30-00.20 (W)	XIV	11800, 9715	15445, 11800

Happy Station

02.00-03.30 (Mo.)	IV	9590, 6025	9590, 6025 (11730)
06.00-07.30 (Sun.)	XVII	11780, 9715	11780, 9715
10.30-12.00 (Sun.)	XXIII	21565, 6020, 5980	9715, 6020, 5980
16.00-17.25 (Sun.)	XXIV	21480, 15445, 6020	21480, 15445, 6020
21.00-22.30 (Sun.)	XXV	15445, 11780, 6020	15445, 11780, 6020

¹⁾ D. exc. Mo.

PROGRAMME SCHEDULE

NATIONAL MUSIC: The Amsterdam Concertgebouw Orchestra: In Dutch, English, Spanish: Thurs. 13.25-14.25, 17.55-18.55, 21.25-22.25, 23.25-00.15, Fri. 01.55-02.45. Indonesian: Sun. 12.40-13.10. Other prgr.s of Dutch music: Afrikaans: Tues. 16.00-16.19. English: Mo. 07.12, 14.12, 19.42, 21.42, Tues. 01.42. Indonesian: Wed. 13.15. Spanish: Mo. 21.00, 24.00, Tues. 01.00, 03.00.

DUTCH WORLD BROADCASTING SYSTEM**RADIO NEDERLAND****HILVERSUM - HOLLAND**

daily broadcasts in

**AFRIKAANS
ARABIC
DUTCH
ENGLISH
INDONESIAN
SPANISH**

news, commentaries, actualities, feature-programmes, music - 100 K/W transmitters - 11, 13, 16, 19, 25, 31, 49 metre bands - programme bulletins free on application.

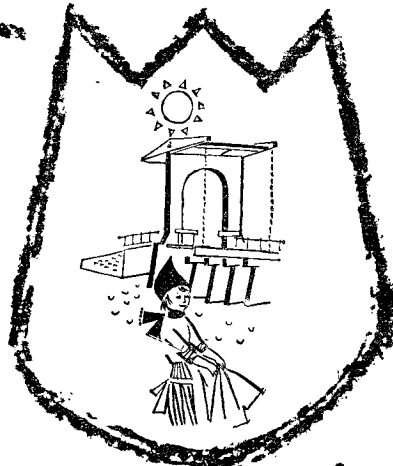
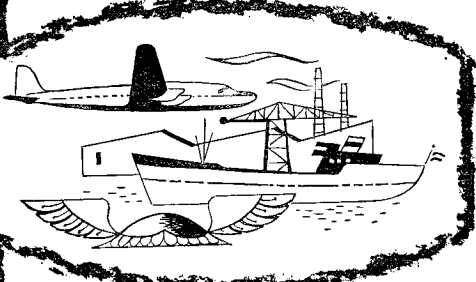
Radio stations the world over are invited to apply to our

TRANSCRIPTION SERVICE

for free recordings of

- serious and light music
- entertainment-programmes
- feature-spots, coverages
- topical talks, interviews

ALL TRANSCRIPTION PROGRAMMES are adapted to suit the requirements of the areas served.



Holland - Hungary

NEWS, COMM.: Afrikaans: W. 15.31. Arabic: D. 16.02, 17.00, 18.02, 19.00. Dutch: 01.30, 06.00, 08.00, 13.00, 16.30, 17.00, 17.30, 20.00, 20.30, 21.00, 22.30, 23.30. English: W. 07.00, 14.00, 19.30, 21.30, 01.30 (exc. Mo.). Indonesian: D. 12.32. Spanish: W. 20.30, 23.30, 00.30 (exc. Mo.), 02.30 (exc. Mo.).

LISTENERS REQUEST PRGR.: Afrikaans: Sat. 15.41. Arabic: Fri. 17.05, 19.05. Dutch: Fri. 02.15, 06.20, 08.25, 13.45, 18.15, 21.45, 23.45. English: Thurs. 07.12, 14.12, 19.42, 21.42, Fri. 01.42. Indonesian: Sat. 12.50, every 3rd and 5th Tues. of the month 13.50. Spanish: Thurs. 20.30, 23.43, Fri. 00.43, 02.43.

MAILBAG: Afrikaans: Sat. 15.41. Arabic: Fri. 17.05, 19.05. Dutch: Fri. 06.45, 08.50, Sat. 02.20, 13.50, 18.20, 21.50, 23.50. English: Wed. (fortnightly) 07.32, 14.32, 20.02, 22.02, Thurs. (fortnightly) 02.02. Spanish: Tues. 21.01, Wed. 00.01, 01.01, 03.01.

DX-PROGRAMMES: English: Tues. 07.12, 14.12, 19.42, 21.42, Wed. 01.42.

PRODUCTION "HAPPY STATION": The 5 "Happy Station" Sun. prgrs., 4 in English and 1 in Spanish and Portuguese, bring a wide range of carefully selected music catering for all tastes. Short features of universal interest, descriptive commentaries and educational quizzes supplement the 90 min. prgrs. In addition each transmission carries an international "mailbag" with calls to all parts of the globe. 1962 marks the 34th year of the "Happy Station's" worldwide broadcasting. The "Happy Station" prgr. EVERY SUNDAY: (for frequencies see operating sched.).

06.00-07.30 Au./NZ/Pacific - 10.30-12.00 Europe & Far East - 16.00-17.30 Eu./Af./So. Asia - 21.00-22.30 So. Am./Spain & Portugal - 02.00-03.30 No. Am. (Sun. night to Mo.).

ANN.: Dutch: "Hier R. Nederland in Hilversum". E.: "This is the International Service of R. Nederland in Hilversum, Holland". Ind.: "Disini Hilversum Siaran Indonesia R. Nederland". Sp.: "Aqui R. Nederland, Hilversum, Holanda". Arabic: "Huna Hilversum - al idha'atu'l hulandiya bi'l-lughati'l-Arabiya". Afrikaans: "Dit is R. Nederland Wereldomroep in Hilversum, Holland".

GENERAL INT.-SIG.: Old Dutch folk song called: "Merk toch hoe sterck" played on carillon or celeste on all frequencies.



V. by QSL-card. - PUB.: Prgr. bulletin in Dutch, English, Spanish, Arabic, Afrikaans. - A pamphlet on improving s.w. reception in Dutch, English, Spanish, Indonesian. Also a diagram for building a s.w. converter in Dutch, English. All the pub. are sent free of charge on application.

TRANSCRIPTION SERVICE. A free sce. to foreign sts. Issues complete prgrs. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

★ HUNGARY ★

L.T.: GMT + 1 h. - Pr.L.: Hungarian. - Po.: 10.000.000. - Revrs.: 2.208.500. - E.C.: 110/220 V., A.C., 50 c/s.

MAGYAR RADIO ES TELEVIZIO (Go.)

ADDR.: Brody Sandor-S.u. 5-7, Budapest VIII. Cable: Magyarrádió. L.P.: Pres. & Gen. Mgr.: L. Gács. Vice-Pres.: I. Hárs, dr. Dir. Prgr.: Dr. K. Kiss. Dir. Adm.: G. Mike. Dir. Tec.: L. Hermann. Dir. Foreign Rel.: Mrs. M. Solymár, dr.

HOME SERVICE

	kc/s	m	kW	H. of tr.
Kossuth, Budapest	539	556.5	135	W. 03.30-23.30 Sun. 05.00-23.30
Petőfi II, Budapest	872	344.0	30	05.00-07.10
Petőfi I. Szolnok	1187	252.7	135	12.50-22.00
Nyiregyháza	1340	223.8	25	17.00-18.00
Szombathely	1340	223.8	25	Sun. 08.00-09.00
Pécs	1340	223.8	15	D. 15.30-18.00
Győr	1349	223.3	0.4	17.00-18.00
Szolnok	1349	223.3	0.4	D. 16.00-17.00
Miskolc	1594	188.2	15	D. 17.00-18.00
Magyaróvár	1594	188.2	0.4	Sun. 08.00-09.00
Balatonszabadi	1594	188.2	15	17.00-18.00

R. Kossuth: N., Wrp.: W. 03.30, 04.20, 06.00, 09.00, 11.00, 14.00, 16.00, 19.00, 21.00, 23.00. Sun.: 05.00, 07.00, 11.00, 16.00, 19.00, 21.00, 23.00. R. Petőfi: N.: W.: 07.00, 15.00, 17.00, 18.00, 20.00, 22.00. Sun. 22.00. FM: Budapest 66.67 mc/s 2 kW, Pécs 68.7 mc/s 2 kW: 17.00-21.00. ANN.: "Rádió Kossuth, Budapest" - "Rádió Petőfi, Budapest".

FOREIGN SERVICE

STATIONS: 100 kw.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
1250	240.0	7220	41.55	11895	25.22	15365	19.52
5960	50.34	9770	30.71	11910	25.19	15415	19.46
6236	48.08	9833	30.51	15160	19.79	17720	16.93

	5/11-3/3 kc/s	4/3-5/5 kc/s	6/5-1/9 kc/s
TO EUROPE			
English:			
20.00-20.30	7220, 9833	7220, 9833	9833, 11910
22.00-22.30	7220, 9833	7220, 9833	9833, 11910
French:			
13.30-14.00*	9833, 11910	9833, 11910	9833, 11910
18.00-18.30	7220, 9833	7220, 9833	7220, 9833
19.30-20.00	7220, 9833	7220, 9833	7220, 9833
German:			
18.00-18.30	1250	1250	1250
18.30-19.00	1250, 6236	1250, 6236	1250, 7220
20.00-20.30	1250, 6236	1250, 6236	1250, 7220
Greek:			
11.45-12.00(W)	9833	9833	9833
12.00 13.00*	9833, 11910	9833, 11910	9833, 11910
15.00-15.30*	9833	9833	9833
17.00-17.30	1250, 9833, 6236	1250, 7220, 9833, 11910	1250, 9833, 11910
19.30-20.00	1250, 6236	1250, 6236	1250, 11910
Hungarian			
14.00-16.00*	1250, 9833, 11895, 15160, 17720	1250, 9833, 11895, 15160, 17720	1250, 9833, 11895, 15160, 17720
19.00-19.30	1250, 6236, 7220, 9833	1250, 6236, 9833	1250, 7220, 9833, 11910
21.00-22.00	1250, 6236, 7220, 9833	1250, 6236, 7220, 9833	1250, 7220, 9833, 11910
22.00-23.00	1250	1250	1250
Italian:			
17.30-18.00	1250, 6236, 7220	1250, 7220, 11910	1250, 9770, 11910
20.30-21.00	1250, 6236	1250, 6236	1250, 7220
Spanish:			
20.30-21.00	7220, 9833	7220, 9833	7220, 9833

TO NEAR EAST:

Arabic:			
16.00-16.30	9833, 11895	9833, 11895	9833, 11895, 15365
18.00-18.30	7220	11895	
Turkish:			
10.00-12.00*	9833, 11910, 15365	9833, 11910, 15365	9833, 11910, 15365
16.30-17.00	1250, 6236, 9833, 11895	1250, 7220, 9833, 11895	1250, 9833, 11895, 15365
18.30-19.00	7220, 9833	9833, 11895	9833, 11895

TO NO. AMERICA:

English:			
00.00-01.00	5960, 9833	7220, 9833, 11910	9833, 11910
03.30-04.30	5960, 7220, 9833	7220, 9833, 11910	7220, 9833, 11910

Hungarian:

01.00-01.30			
02.00-02.30			
03.00-03.30	5960, 7220, 9833	7220, 9833, 11910	7220, 9833, 11910
04.30-05.00			

TO C. AMERICA:

Spanish:			
01.30-02.00	5960, 7220, 9833	7220, 9833, 11910	7220, 9833, 11910

TO SO. AMERICA:

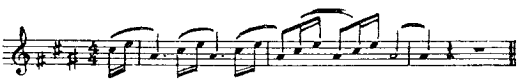
Hungarian:			
23.30-24.00	9833, 11910	9833, 11910, 15415, 17720	9833, 11910, 15415, 17720
Spanish:			
23.00-23.30	9833, 11910	9833, 11910, 15415, 17720	9833, 11910, 15415, 17720

ANN.: E.: "This is Budapest, Hungary". F.: "Ici Budapest".

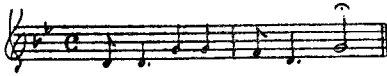
INT-SIG: R. Kossuth:



R. Petőfi:



Foreign Service: Old Hungarian Folksong "From the Tisza, past the Danube";



V. by QSL-card and letter. - PUB.: "Rádió és Televízió Ujság" (weekly).

★ ICELAND ★

L.T.: GMT ÷ 1 h. (Su. = GMT). - Pr.L.: Icelandic. - Po.: 177.000. - Rcvrs.: 49.764. - E.C.: 220 V., A.C., 50 c/s.

ICELAND STATE BROADCAST SERVICE - RIKISUTVARPID (Go.).

ADDR.: P. O. Box 120, Reykjavik. Cable: Utvarp.

L.P.: Dir. Prgr. Council: B. Groendal. Dir. Gen.: V. Th. Gislason. Dir. Adm.: S. Thordarson. Dir. Prgr.: A. Björnsson. Dir. Music: A. Kristjánsson. Dir. Drama: T. O. Stephensen. Dir. News: J. Magnússon. Dir. Tec.: S. Bjarnason.

HOME SERVICE: Mo.-Fri.: 09.00-11.00, 13.00-17.30, 19.00-01.00. Sat.: 09.00-11.00, 13.00-01.00, Sun.: 09.30-01.00.

	ke/s	m	kW		ke/s	m	kW
Reykjavik TFU	209	1435	100	Djúpivogur	1484	202.2	0.02
Akureyri	737	407.1	5	Fáskrúðs-			
Eidur	665	541.2	5	fjörður	1484	202.2	0.02
Höfn	611	491.0	1	Eskilfjörður	1510	198.5	0.02
Breiddalsvík	1412	212.0	0.02	Reyðarfjörður	1520	197.4	0.02
Neskaupstaður	1412	212.0	0.02	Stöðvarfjörður	1545	194.2	0.02
Reykjavik FM	94 mc/s	0.6 kW	98 mc/s	0.06 kW			

N.: W. 09.30, 13.30, 16.00, 17.00, 20.30, 23.00. Sun. 10.00, 13.30, 20.30, 23.00.

FOREIGN SERVICE in Icelandic:

Reykjavik TFF 11780 kc/s 25.47 m 7 kW: D. 20.30-22.00, Sun. also 13.00-15.00.

ANN.: "Útvarp Reykjavik". - V. by QSL-card. Rp.

INT.-SIG.: Home Service:



Foreign Sec.:



ARMED FORCES RADIO AND TELEVISION SERVICE:
See USA.

★ IRELAND ★

L.T.: GMT (Su. GMT + 1 h.). - Pr.L.: Irish, English. - Po.: 2,900,000. - Rcvrs.: 495,000. - E.C.: 220 V., A.C., 50 c/s.

RADIO ÉIREANN (Semi-State).

FI.: By State, license payments and adv. - AD.: Max. 10% of prgr. hours. - ADDR.: Gen. Post Office, Dublin. Cable: Radioeireann. Te.: 42981. - L.P.: Chairman: E. Andrews. Dir. Gen.: E. J. Roth. Dir. Prgr.: J. O'Keefe.

HOME SCE.: W.: 08.00-10.15, 13.00-15.00, 17.00-23.30. Sun.: 10.25-11.15, 12.30-23.30.

Athlone 566 kc/s 530 m 100 kW - Dublin 1250 kc/s 240 m 5 kW
Cork 1250 - 240 - 5 -

N.: English: 08.00 (W), 09.00 (W), 10.00, 13.30, 18.30, 22.15 - Irish: 18.01, 22.00 (W). - Wrp.: English: 07.55 (W), 09.00 (W), 10.25 (S), 13.30, 17.55, 18.30, 22.15. Irish: 18.01, 22.00 (W).

ANN.: "Radio Eireann". - INT.-SIG.: Celeste and Harp playing 4 bars of Irish Air "O'Donnell Abu". - V. by letter.



★ ITALY ★

L.T.: GMT + 1 h. - Pr.L.: Italian. - Po.: 51,000,000. - Rcvrs.: 8,263,768 (1/7/61). - E.C.: variable V., A.C., 50 c/s.

RAI - RADIOTELEVISIONE ITALIANA

(State Service granted by public act to RAI).

FI.: By license payments and adv. - AD.: 5% of broadc. time for radio, 17 min. a day for TV.

ADDR.: Via del Babuino 9, Roma. Cable: Raiditro. Te.: 664. L.P.: Pres.: Prof. Novello Papafava. Vice Pres.: Hon. Luigi Bennani. Man.

Dir.: Ing. Macello Rodino. Dir. Gen.: Dr. Ettore Bernabei. Vice Dir. Gen.: Dr. Marcello Bernardi. Gen. Sec. (Dir. For. Rel.): Dr. Gian Franco Zaffrani. Dir. Adm.: Dr. Bruno Vasari. Dir. Prgr. (Radio): Maestro Giulio Razzi. Dir. Prgr. (TV): Dr. Sergio Pugliese. Dir. Radio & TV Inf. Scs.: Dr. Antonio Piccone Stella. Dir. Tec. Radio: Eng. Gino Castelnovo. Co. Dir.: Eng. Edoardo Cristofaro. Co. Dir. Gen. Aff.: Dr. Luigi Veretta. Dr. Aldo Passante. Chief Pers.: Dr. Marcello Severati. Dir. "Radiocorriere": Dr. Michele Serra.

HOME SCE.: No powers indicated owing to pending changes.

MEDIUM WAVES	Nat. prgr. ke/s	2 prgr. ke/s	3 prgr. ke/s	Nat. prgr. ke/s	2 prgr. ke/s	3 prgr. ke/s
Aosta 1)	1115			Pisa 8)	1115	1594
Alessandria 1)	1448			Siena 8)	1448	
Biella 1)	1448			Perugia 9)	1578	1448
Cuneo 1)	1448			Terni 9)	1578	1448
Torino 1)	656	1448	1367	Ancona 10)	1578	1448
Como 2)	1448			Ascoli P. 10)	1448	
Milano 2)	899	1034	1367	Roma 11)	1331	845 1367
Sondrio 2)	1448			Aquila 12)	1578	1484
Bolzano 3)	656	1484	1594	Campobasso 12)	1448	
Bressanone 3)	1484	1594		Pescara 12)	1331	1034
Brunico 3)	1484	1594		Teramo	1448	
Merano 3)	1484	1594		Avellino 13)	1484	
Trento 3)	1331	1448	1367	Benevento 13)	1448	
Belluno 4)	1448			Napoli 13)	656	1034 1367
Cortina 4)	1448			Salerno 13)	1448	
Venezia 4)	656	1034	1367	Barì 14)	1331	1115 1367
Verona 4)	1578	1448	1367	Brindisi 14)	1578	
Vicenza 4)	1484			Foggia 14)	1578	1448
Gorizia 5)	1484			Lecce 14)	1578	1448
Trieste 5)	818	1115	1594	Taranto 14)	1578	1448
Udine 5)	1331	1448		Potenza 15)	1578	1448
Trieste A 5)	980			Catanzaro 16)	1578	1448
(autonoma in Sloveno)				Cosenza 16)	1578	1484
Genova 6)	1331	1034	1367	Reggio C 16)	1331	
La Spezia 6)	1578			Aggrigento 17)	1448	
Savona 6)	1484			Catania 17)	1331	1448 1367
S. Remo 6)	1034			Caltanis-		
Bologna 7)	1331	1115	1367	setta 17)	566	1448
Arezzo 8)	1484			Messina 17)	1115	1367
Carrara 8)	1578			Palermo	1331	1448 1367
Firenze 8)	656	1448	1367	Cagliari 18)	1061	1448
Livorno 8)	1578		1367	Nuoro 18)	1578	1484
				Sassari 18)	1578	1448

FM: 192 st. (Nat. prgr.), 192 st. (prgr. 2), 192 st. (prgr. 3).

1) Piemonte. 2) Lombardia. 3) Trentino Alto Adige. 4) Veneto. 5) Venezia, Giulia, Friuli. 6) Liguria. 7) Emilia, Romagna. 8) Toscana. 9) Umbria. 10) Marche. 11) Lazio. 12) Abruzzi, Molise. 13) Campania. 14) Puglia. 15) Basilicata. 16) Calabria. 17) Sicilia. 18) Sardegna.

SHORT WAVES:

Nat. Prgr. Caltanissetta 6060 kc/s 49.50 m - 9515 kc/s 31.15 m.

2. Prgr. Caltanissetta 7175 kc/s 41.81 m. - 3. Prgr. Roma 3995 kc/s 75.09 m.

National Prgr.: W. 05.30-13.20, 14.15-23.15. Sun. 05.30-23.15.

N., Wrp.: 06.00 (W), 07.00, 12.00, 13.00, 16.00 (W), 19.30, 22.15, 23.00.

Rel.: Sun. 06.45 (Evangelistic), Sun. 08.30 (Mass from R. Vaticana).

Folklore Music: 16.40. - L.L.: 05.35 (Spanish: Mo., Wed., Fri.; Portuguese: Tues., Thurs., Sat.), 16.20 (French: Mo., Thurs.; English: Tues., Fri.; German: Wed., Sat.).

2nd prgr.: W. 08.00-11.20, 12.00-22.00 (approx) Sun. 08.00-11.00, 12.00-13.30, 13.45-22.00 (approx).

N., Wrp.: 08.00, 12.30, 13.30 (W), 14.30 (W), 17.30 (W), 19.00, 20.30, 22.00.

3rd Prgr.: W. 16.00-23.00. Sun. 15.00-23.00. - N.: 20.00.

3rd Network (on same frequencies as 3rd prgr.): D. 07.00-07.50 (Broadcasts for Tourists in French, German, English), 09.00-13.15.

Night Programme (Notturmo dall'Italia) on 845, 6060, 9515 kc/s: 22.05-05.30. 7 h. of music parade: songs, melodies, opera music, dance music, folklore songs, symphony, operetta and jazz, with short news-bulletins in four languages (English, French, German, Italian) every h. On Sundays: "Holiday for a Continent" musical diversissement presented in Italian, English, French and German.

FOREIGN SERVICE

RADIO ROMA: 50/60/100/kW.

ADDR.: Casella Postale 320, Roma. Te.: 489.171.

ke/s	m	ke/s	m	ke/s	m	ke/s	m
566	530.0	7275	41.24	11805	25.41	17740	16.91
845	355.0	7290	41.15	11810	25.40	17770	16.88
1115	269.0	9515	31.53	11905	25.20	17800	16.85
5960	50.34	9575	31.33	15120	19.84	21560	13.91
6010	49.92	9630	31.15	15325	19.58		
6060	49.50	9710	30.90	15400	19.48		

Italy - Monaco

EUROPEAN SERVICE "Rome calling Europe"

Albanian	kc/s	Polish	kc/s
13.30-13.45	7290, 9575	13.00-13.15	6010, 9630, 11810
17.45-18.00	6010, 9575	17.35-17.45	6010, 9575
Bulgarian		20.10-20.25	5960, 7275
20.55-21.15	6010, 7290, 9575	Portuguese	
Czech		21.35-22.00	5960, 7275
13.15-13.30	6010, 9630, 11810	Rumanian	
18.25-18.35	5960, 7275, 9710	13.00-13.15	7290, 9575
20.25-20.40	5960, 7275	20.35-20.55	6010, 7290, 9575
Danish/Swedish*		Russian	
17.35-17.55	5960, 7275, 9710	03.30-03.45	6010, 7275, 9575, 9630, 11810
English		14.05-14.20	9575, 11905
18.20-18.40	6010, 9575	21.15-21.35	5960, 7275
French		Serbian	
18.00-18.20	6010, 9575	10.10-10.25	7275, 9575
German		21.15-21.35	6010, 7290, 9575
10.25-10.40	7290, 9575	Slovak	
13.30-13.45	6010, 9630, 11810	13.45-14.00	6010, 9630, 11810
18.10-18.25	5960, 7275, 9710,	21.00-21.15	5960, 7275
for Austria		Slovene	
20.40-21.00	5960, 7275	13.45-14.00	7290, 9575
Greek		Spanish	
19.05-19.25	5960, 7275	22.00-22.25	5960, 7275
Hungarian		Turkish	
13.15-13.30	7290, 9575	19.25-19.50	5960, 7275
21.35-21.55	6010, 7290, 9575	Ukrainian	
Italian		18.40-19.00	6010, 9575
13.55-14.05	566, 1115, 9515	Belgian/Espanto/English & French***	
15.35-15.55	6010, 7290, 11810	17.55-18.10	5960, 7275, 9710
17.35-18.10	(Sun.) 5960, 7275, 9710		
Lithuanian			
19.50-20.10	5960, 7275		

* Danish: Tues., Thurs., Sat.; Swedish: Mo., Wed., Fri.

** For Belgium (F.) Sat.: Esperanto: Tues., Wed., Fri.; English & French: Mo., Thurs.

GENERAL OVERSEAS SERVICE AU, NZ, F. EAST

English	kc/s
09.00-09.40	15325, 17800, 21560
Italian	
06.50-08.55	11905, 15325, 17740, 17800, 21560
20.00-20.30	9575, 9710, 11810
22.00-22.25	9575, 9710, 11810

SO.EA.ASIA & THE FAREAST

Chinese	
09.45-10.05	11905, 17800
English, French	
10.45-11.25	15400, 17800, 21560
Indonesian	
09.45-10.05	15325, 17770, 21560
Japanese	
10.10-10.40	11905, 17800, 21560

SOUTH AFRICA

English	
15.35-15.55	17770, 21560
Somali	
14.50-15.25	15325, 21560

SO. ASIA

Hindi	
15.15-15.30	
Urdu	
14.50-15.05	11905, 15400, 17770
Bengali	
15.05-15.15	

AFRICA & NEAR EAST

Arabic	
06.30-06.45	6010, 9575, 11905, 15400, 17800
12.25-12.55	6010, 9630, 11810, 15400, 17800

* for Australia/New Zealand and F. East.

** for No. & So. America.

ANN.: "RAI - Radiotelevisione Italiana - Stazioni del (Programma Nazionale, Secondo Programma, Terzo Programma)". Night Prgr.: "RAI - Radiotelevisione Italiana - Stazione di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc/s 845". - "Notturmo dall'Italia". - INT.-SIG.: Bird chirping. - V. by QSL-card.

★ LUXEMBOURG ★

L.T.: GMT +1 h. - Pr.L.: Luxembourgian, French, Flemish, English, German. - Po.: 315.000. - Rcvrs.: 99.700. - E.C.: 110/220 V., A.C., 50.60 c/s, 110/220 V., D.C.

RADIO LUXEMBOURG (Comm.)

Fl.: By adv. - ADDR.: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. Cable: Radio Luxembourg. Te.: 25881. - L.P.: Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Secr. Gen.: G. Graas.

STATIONS: R. Luxembourg I and II:

I 233 kc/s 1287 m 500 kW - 6090 kc/s 49.26 m 50 kWd.*
II 1439 - 208 - 350 - - 15350 - 19.54 - 5 - d.

FM: 92.5 mc/s 15 kW. *Relay 1439 kc/s.

HOME SERVICE IN LUXEMBOURGIAN:

On 92.5 mc/s: W.: 11.30-13.00, 17.30-21.00. Sun. 09.00-21.00. N., Comm.: D. 11.45, Sun. 17.40, W. 18.25 - Nat. Music: Sun., Thurs. 20.00-21.00, Sat. 18.00-18.25.

On 1439 kc/s: N., Comm.: D. 17.40.

FOREIGN SERVICE:

On 233/15350 kc/s in French: D. 04.40 (Sun. 05.59)-02.00.

N., Comm.: W.: 05.10, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.23, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.15, 19.30 (Mo., Tues.), 19.31 (Thurs.), 19.35 (Fri.), 19.40 (Wed.), 19.45 (Sat.), 20.00 (Thurs.), 20.15 (Mo.), 20.30 (Tues., Fri.), 20.35 (Wed., Sat.), 22.55, 23.00, 24.00, 01.00, 02.00. Sun.: 06.30, 07.00, 08.00, 09.00, 10.55, 12.00, 18.15, 21.00, 23.00, 24.00, 01.00, 02.00.

Rel. Prgrs.: French: W. 04.40-04.49.

On 1439/6090 kc/s in Flemish, German, English:

Flemish: W. 04.45 (Tues., Wed., Thurs. 04.30)-12.00. Sun. 04.45-13.00. N., Comm.: Mo.-Fri. 06.31, 11.51, Sat. 06.51, 11.56, Sun. 07.00 12.00.

German: D. 12.00 (Sun. 13.00)-17.30, 23.00-02.00. N.: W.: 17.35, 24.00, 01.00, 02.00.

English: 18.00-02.00. N.: D.: 00.00, 01.00, 02.00.

Rel. Prgrs. (on 1439/6090 kc/s): German: Sun. 04.45-05.45, Mo. 04.45-05.25, Tues. 04.45-05.20, Wed. 04.45-05.55, Thurs. 04.45-05.40, Fri. Sat. 04.45-05.20. Flemish: Sun. 05.45. Polish: Mo. 05.25-05.45. French: Mo. 05.45-05.55, Tues., Thurs., Sat. 05.40-05.55, Fri. 05.20-05.35. Russian: Tues. 05.20-05.40. Hungarian: Sat. 05.20-05.40.

ANN.: F.: "Ici R. Luxembourg". E.: "Here R. Luxembourg". Fl.: "Hier is R. Luxembourg". G.: "Hier R. Luxembourg". Luxembourgian: "Hei ass R. Letzeburg".

INT.-SIG.: Melody played on piano: A Luxembourgian popular song.



V. by letter.

★ MALTA (British) ★

L.T.: GMT +1 h. - Pr.L.: English, Maltese. - Po.: 328.900. - Rcvrs.: 50.000. - E.C.: 240 V., A.C., 50 c/s.

REDIFFUSION (MALTA) LTD. (Priv. Comm.)

Fl.: From wired subscribers and adv. - ADDR.: Rediffusion House, St. Luke's Road, Guardamangia. Cable: Rediffusion. Te.: Central 25051. - L.P.: Gen. Mgr.: E.A. Hamilton-Hill, O.B.E. Head of TV, Advertising and Engineering: F. R. Yardley, M. Brit. I.R.E. Head of Adm., Prgr.s and Public Rel.: G. Binns, M.A.

D.PRGR.: Prgr. I: 06.00-23.00. Mainly B.B.C. G.O.S. with locally produced substitutions. - Prgr. II: Maltese: 05.00-22.00. Locally originated prgrs.

CENTRAL MEDITERRANEAN RELAY (Relays of BBC Arabic Sec.) Libya/Tunisia: 1178 kc/s

★ MONACO ★

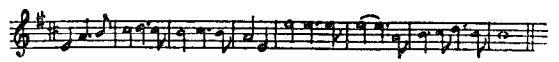
L.T.: GMT +1 h. - Pr.L.: French. - Po.: 22.000. - Rcvrs.: 5.500. - E.C.: 110/115 V., A.C., 42 c/s.

RADIO MONTE-CARLO (Comm.)

ADDR.: 16, Boulevard Princesse Charlotte, Monte Carlo. - L.P.: Dir. Gen.: R. Schick. Dir. Tec.: M. Auvray. Dir. Prgr.: P. Brive. HOME SCE.: 1466 kc/s 205 m 400 kW - 6035 kc/s 49.71 m 25 kW - 7135 kc/s 42.05 m 25 kW - FM: 93.5 mc/s 50 kW. D. 05.30-23.05 (Sat. 24.00).

N.: From 06.00 to 18.00 every h. on the h. and 18.35, 21.25, 23.00. Rel. Prgrs.: D. 05.48 (in Italian & French).

ANN.: "Ici Monte Carlo". - INT.-SIG.: "L'Hymne National Monégasque".



V. by QSL-card or letter. - PUB.: Weekly prgr. sched.



Interior, short wave center

NORWEGIAN BROADCASTING CORPORATION

See text page 89

TRANS WORLD RADIO

Dedicated exclusively to broadcasting the Gospel of our Lord and Saviour, Jesus Christ and is maintained by free will contributions. - Broadcast, in 20 languages, TRANS WORLD RADIO's prgr.s are aired in conjunction with Radio Monte Carlo.

ADDR.: P. O. Box 141, Monte Carlo, Monaco. Cable: Votan. Te.: 30-67-39. - L.P.: Pres.: Dr. Paul E. Freed, Ph. D. Vice Pres.: L.W. Routh. Treasurer: W. P. Haynes. Field Dir.: Dr. Ralph Freed. St. Mgr.: W. P. Mial.

FOREIGN SERVICE: 100 kW in the 49, 42, 31 and 25 m.b. (due to the complexities of the freq.-schedule no definite freq.'s can be given). Arabic: 05.00-05.15 - English: 06.30-07.00 (Sun. 09.30), 19.00-20.10 - French: 11.45-12.15 - German: 11.30-11.45, 16.40-17.25 - Hebrew: 17.40-17.55 - Italian: 12.15-12.30 - Norwegian: 18.30-18.55 - Portuguese: 21.30-21.45 - Russian: 16.05-16.30 - Spanish: 13.00-13.30, 21.15-21.30 - Swedish: 18.00-18.30. - To Eastern Europe: 15.50-16.05, 20.45-21.00.

ANN.: E.: "This is Monte Carlo" or "You are listening to Monte Carlo". "We invite our listeners in the British Isles to stay tuned for the following prgr.'s of Trans World Radio". F.: "Ici Monte Carlo. Trans World Radio vous offre un programme en langue Française". G.: "Hier ist Monte Carlo, von Trans World Radio hören Sie ein Programm in deutscher Sprache". - INT.-SIG.:



V. by QSL-card and prgr. schedule.

★ NORWAY ★

L.T.: GMT+1 h.; 15/3-20/9 GMT+2 h. - Pr.L.: Norwegian. -Po.: 3,500,000. - Revrs.: 1,070,023. - E.C.: 230 V., A.C., 50 c/s.

NORSK RIKSRINGKASTING (Go.)

A non-comm. enterprise operated by an indep. organization. FI: By license payments. - ADDR.: Bj. Björnsons Pl ss 1, Oslo. Cable: Studio, Oslo. Te.: 463820. - L.P.: Dir.: K. Fos ervold. Dir. Prgr.: Th. Diesen. Dir. Adm.: K. Tvedt. Dir. Tec.: Chr. Vibe. Chief Secr.: B. Kragem. Studio Controller: A. Klæbo. Prgr. Editors: H. Hegtun, Karl C. Lyche, H. Kiran, L. Rustad. Dir. Music: K. Lange. Dir. Plays: H. Heiberg. Editor "Programbladet": E. Strand. Dir. S.w. Prgr.: G. Nygaard. Press and Inf. Officer: O. Folkestad.

HOME SCE.: W.: 05.30-08.00, 10.20-13.20, 14.30-22.30. Sun.: 06.50-14.00, 14.30-23.00.

Long- and Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Tromsø	155	1935	10	Notodden	1115	269	1
Oslo	218	1376	200	Bø i Vester- ålen	1115	269	1
Bygland	290	1030	0.25	Stavanger	1313	228	100
Røros	520	577	0.25	Geilo	1466	205	0.25
Vigra	629	477	100	Narvik	1466	205	1
Bodø	674	445	10	Odda	1466	205	0.25
Finmark	701	428	20	Porsgrunn	1466	205	0.25
Bergen I	890	337	20	Sandnessjøen	1466	205	0.25
Kristiansand	890	337	20	Svalbard	1466	205	1
Trøndelag	890	337	20	Brønnøysund	1484	202	0.25
Alta	1115	269	0.25	Glomfjord	1484	202	0.25
Arendal	1115	269	0.25	Mosjøen	1484	202	0.25
Bergen II	1115	269	1	Rjukan	1484	202	0.25
Lista	1115	269	0.25	Fredrikstad	1578	190	10
Mo i Rana	1115	269	0.04	Nordkapp	1578	190	1.3
Namsos	1115	269	1				

FM:

	mc/s	kW (ERP)		mc/s	kW (ERP)
Børve	87.6	0.02	Melhus	92.4	15
Hovdefjell	87.8	15	Tana	92.7	30
Førde	88.7	15	Voss	93.3	60
Greipstad	88.8	11	Bremanger	93.6	15
Sogndal	88.8	30	Gulen	94.5	15
Vega	89.1	25	Sauda	95.1	0.01
Øre	89.1	15	Nordheimsund	96.0	0.04
Nordfjordeid	89.4	15	Hammerfest	96.6	30
Odda	90.0	0.01	Høyanger*	96.8	0.01
Skien*	90.2	0.025	Årdal	97.1	0.01
Bjerkreim	90.6	60	Fauske*	97.6	0.25
Steinkjer	90.9	12	Lyngdal	97.6	12
Stord	91.8	60	Tron*	98.3	30
Varanger	91.8	15			

* testtransmissions

Power Line distribution: Langerak 300 kc/s 0.6 kW. Oppdal 290 kc/s 1 kW. Røldal 285 kc/s 1 kW. Sand 300 kc/s 1 kW. Sulitjelma 511 kc/s 0.25 kW. Tonstad 300 kc/s 2 kW. Åndalsnes 300 kc/s 0.25 kW. Årøy 300 kc/s 0.6 kW. Åsral 300 kc/s 2 kW. - Prgr. details: All prgr.s one hour earlier during summerperiod (15/3-20/9).

Norway – Poland

N.: 05.40(W), 07.00(W), 08.00(Sun.), 12.00, 18.05, 21.10. – Wrp.: 05.40(W), 07.00(W), 08.00(Sun), 12.00, 18.00, 21.00. – Folklore Music: Sun. 16.30. – Rel.: Sun. 10.00, Thurs. 17.00, W. 07.15. – L.L.: German: Sun. 07.00–07.15. English: Sun. 07.15–07.40.
Bergen I (337 m, Voss FM, Odda 205 m, Arøy 1000 m): Mo.–Fri. 15.10–15.30: Information.
Bergen II Local: D. 16.00–17.30(Sun. 17.45).

This prgr. is broadcast by the stations: Brønnøysund, Sandnessjøen, Mosjøen, Mo i Rana, Sulitjelma, Bodø, Narvik, Glomfjord, Tromsø, Alta, Nordkapp, Finnmark.

Samisk from Tromsø, Alta, Nordkapp, Finnmark: Tues. 13.10–13.40. Sat. 13.30–14.00.

ANN.: "Det er Norsk Rikskringkasting". In Samisk: "Det la Norga Rikaradio, Tromsast. Di gullabetet Samgjal programa". – INT.-SIG.:



FOREIGN SERVICE (Nov./Feb.)

Frequencies that may be used during the year. Transmitters: Fredrikstad 100 kW (1), 10 kW (2), 5 kW (one, 13 m only), 2 kW (one, 11 m only), 0.2 kW (1), Tromsø 10 kW (1).

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
LKF	1578	190.1	LLD	9550	31.41	LLM	15175	19.77
LKJ	6130	48.94	LLG	9610	31.22	LKW	17755	16.90
LLI	6185	48.50	LLH	9645	31.10	LLN	17825	16.83
LLS	7210	41.61	LKQ	11735	25.56	LLP	21670	13.85
LLR	7240	41.44	LLK	11850	25.32	LLQ	21730	13.81
			LKV	15170	19.78	LLA	25900	11.58

Special Abbreviations: I=Europe, Africa, Mid- & So. Atlantic; II=No. & Mid Atlantic; III=Far East, Japan, N. Zealand, Ea. Australia; IV=Europe, India, We. Australia; V=So. America, Mid- & So. Atlantic; VI=No. Atlantic, No. America (East Coast), Caribbean; VII=No. Atlantic, No. America (We. Coast), Pacific, Ea. Africa. a) Home Sec. b) For Norwegians abroad. c) Weather at Sea (in Norwegian only). d) Norway this week. A) 5/11 61–4/3 62. B) 4/3 62–6/5 62. Freq.s in fat types 100 kW, 1=0.2 kW.

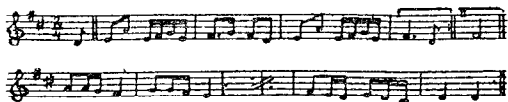
Time	Prgr.	Ar.	Per.	kc/s
06.00–07.30	I	A	J	6130, 9610 ¹ , 11850, 17825, 21730, 25900
07.00–09.55*				11850, 15175, 21730, 25900
10.25–10.35	c	II	B	11850, 15175, 17825, 21730, 25900
11.00–12.15	b	III	A	6130 ¹ , 9610, 11850, 17825, 21730, 25900
11.00–12.25*	b+d	III	B	6130 ¹ , 11850, 15175, 17825, 21730, 25900
13.00–14.15	b	IV	A	6130, 9610 ¹ , 15175, 17825, 21730, 25900
13.00–14.25*	b+d	IV	B	6130, 9610 ¹ , 15175, 17825, 21730, 25900
16.00–17.15	b	I	A	6130 ¹ , 11850, 15175, 17825, 21730
16.00–17.25*	b+d	I	B	6130 ¹ , 6130, 15175, 17825, 21730, 25900
			J	9610, 11850, 15175, 21730
18.00–22.00	a	I	B	6130 ¹ , 11850, 15175, 17825, 21730
23.00–00.20	c,b	V	A	1578, 6130, 9610, 11850
23.00–00.30*	c,b,d	V	B	1578, 6130, 11850, 15175
01.00–02.20	c,b	VI	A	1578, 6130, 9610, 11850
01.00–02.30*	c,b,d	VI	B	1578, 6130, 9610, 11850
04.00–05.20	c,b	VII	A	1578, 6130, 9610, 11850
04.00–05.30*	c,b,d	VII	B	1578, 6130, 9610, 11850
* Sun. ** Mo. only.				

Tromsø Short-Wave tr. carries the Norwegian Home Service on 9550 kc/s during A, on 11735 kc/s during B.

Prgr. for Norwegians abroad: Sun.: Religious Sec., Sport. L.N.: – Mo.: Sport N., Parliament N. – Tues.: Actualities. L.N. – Wed.: Request Prgr. (music). L.N. – Thurs.: World N., L.N. – Fri.: Missionary N., L.N. – Sat.: Letter Box, L.N.

ANN.: "This is Radio Norway with its shortwave service for Norwegians abroad".

INT.-SIG.: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal



Five minutes previous to every s.w. tr. the following signal is sent:



Message to our English-speaking audience: In our daily prgrs. for Norwegians abroad we will usually have a section of Norwegian music or music presented by Norwegian artists. This musical section, which lasts 15 to 20 minutes, is introduced in English as well as in Norwegian. On Wed. and Sat. you can listen to our "Letter Box Programme", in which we play our listener's request records. We often receive letters from listeners in Norway with request to play a record with a greeting to one of their relatives abroad, but we regret to be unable to comply with these requests. Every Sunday we have an additional prgr. in English, "Norway this week", in which we try to present Norway in different ways through music and feature prgrs. We are very grateful for comments on our transmissions. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: RADIO NORWAY, Oslo, Norway.

PUB: Programbladet (weekly). Prgr. schedule free on request.

NOREA RADIO (Nordic Radio Evangelistic Association)

FI.: By gifts from listeners and friends. – ADDR.: Grensen 19, Oslo. Cable: Norskkluth. Te.: 417640. – L.P.: Dir. Adm. & Prgr.: M. Leine. Dir. Tec.: A. Nevland.

D.PRGR.: 18.00–18.55 over R. Monte Carlo, Norwegian: D. 18.25–18.55. – Swedish: D. 18.00–18.25. V. by QSL-card or letter.

★ POLAND ★

L.T.: GMT+1 h. (Summer: GMT+2 h.). – Pr.L.: Polish. – Po.: 300,000. – Revrs.: 3,966,332. – E.C.: 220 V., A.C., 50 c/s.

POLSKIE RADIO (Go.)

FI.: By license payments. AD.: 7% of broadc. time.

ADDR.: Komitet do Spraw Radiofonii "Polskie Radio" ul. Noakowskiego 20, Warszawa. Cable: "Polskieradio". Te.: 2106. – L.P.: Pres. W. Sokorski. Vice Pres., Home Sec.: H. Werner. Vice Pres., Foreign Sec.: E. Uzdanski. Vice Pres., Engineering: K. Kozłowski. Dir. Prgr. Home Sec.: O. Stampff. Dir. Prgr. Foreign Sec.: H. Meller. Dir. TV: J. Panski. Dir. Adm.: A. Landau. Sec. Gen.: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec.: B. Klimaszewski. Head Intern. Relations Office: Mme. E. Prastkowska.

HOME SERVICE

	kc/s	m	kW	kc/s	m	kW
Warszawa I	227	1322	500	Białystok	1367	219.8
Poznan	737	407	300	Lublin	1367	219.8
Bydgoszcz	737	407	24	Lodz	1484	202
Warszawa II	818	367	300	Kielce	1484	202.2
Katowice	1079	278	60	Olshzyn	1484	202.2
Wroslaw	1259	238.5	50	Krakow	1502	199.7
ZielonaGora	1259	238.5	20	Rzeszów	1502	199.7
Gdansk	1304	230	30	Opole	1594	188.2
Szczecin	1304	230	80	Koszalin	1594	188.2

FM: Warszawa III 97.6 mc/s 10 kW. Katowice 89.8 mc/s 3 kW. Opole 95.0 mc/s 3 kW.

Prgr. I 227 kc/s: W. 03.57–22.10(Sat. 22.40). Sun. 04.30–23.40. N.: 04.00(W), 05.00, 06.00, 07.00, 08.00(Sun.), 11.04, 15.00, 19.00, 22.00. – Folk Music: W. 11.45–12.00. – Chopin Concert: Wed. 20.00–20.30. – The Polish Radio Symphony Orchestra (WOSPR) Concert: Mo. 20.00–22.00.

Prgr. II 818 kc/s: W. 04.27–12.00, 12.40–23.00(Sat. 01.00). Sun. 05.00–23.00. – N.: 04.30(W), 05.30, 06.30, 07.30, 11.04, 15.00(W), 16.00(Sun.), 18.00(W), 20.00, 22.50. – Chopin Concert: Sun. 15.30–16.00. – National Philharmonic Concerts: Fri. 18.30. – Symphonic Concert: Sun. 11.10.

Prgr. III 97.6 mc/s: D. 18.30–23.00.

FOREIGN SERVICE (Oct. 61-April 62)

kc/s	m	kc/s	m	kc/s	m	kc/s	m
227	1322	6195	48.43	9540	31.45	11955	25.09
1079	278.0	7125	42.11	9675	31.01	15120	19.84
1205	249.0	7145	41.99	11740	25.55	15275	19.64
1304	230.0	7295	41.12	11800	25.42	17800	16.85
6005	49.96	9525	31.50	11815	25.39		

EUROPEAN SERVICE:

Danish: kc/s 7125, 9540
16.30-17.00 6195, 7125, 9540
18.30-19.00 7125, 9540
20.30-21.00 1205, 7125, 9540

English: 7125, 9540
18.30-19.00 6195
19.30-20.00 1205, 7125, 9540
20.30-21.00 7295, 9525
21.30-22.00 6195, 9540

Finnish: 6195, 7125, 9540
16.00-16.30 6195, 7125, 9540
18.00-18.30 6195, 7125, 9540
19.30-20.00 6195

French: 9525, 9540, 11800, 11955
11.00-11.15 9525, 9540, 11800, 11955
16.30-17.00 7145, 9675
17.30-18.00 1205, 7145, 9675
20.00-20.30 7295, 9525
21.30-22.00 7295, 9525

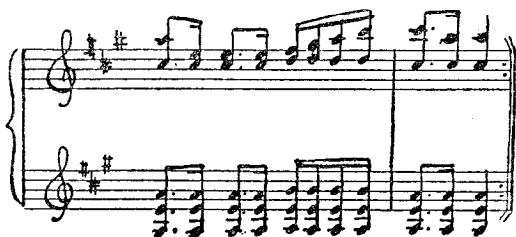
German: 7295, 9525
17.00-17.30 1205, 7295, 9525
18.30-19.00 1205, 7295, 9525
19.30-20.00 7295, 9525
21.00-21.30 7295, 9525
22.45-23.15 227 (Mo.-Fri.)
23.15-23.45 227 (Sat., Sun.)

Italian: 7145, 9675
18.00-18.30 7145, 9675
20.00-20.30 7145, 9675
21.00-21.30 6005, 7145

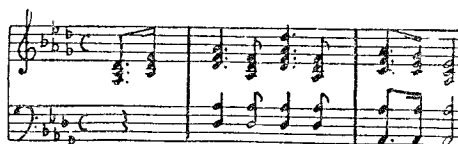
Polish: 6195, 7125, 7295
05.00-07.00 6195, 7125, 7295
12.30-13.00 9525, 9540
15.00-15.30 11800, 11955
15.00-15.30 1205, 6195, 7125, 7145, 7295, 9525, 9540, 9675
16.00-16.30 7295, 9525
16.30-17.00 1205, 7295, 9525
17.00-17.30 6195, 7125, 9540
17.30-18.30 7295, 9525
19.00-19.30 7295, 9525
20.00-20.30 7125, 9540
21.00-21.30 1205, 6195

ANN.: Home Sce.: "This is Polskie Radio Warsaw" (or another station when local programme) - "Tu Polskie Radio Warszawa". - Foreign Sce.: English: "This is Warsaw calling". - Polish: "Mówi Warszawa". French: "Ici Varsovie etc".

INT.-SIG.: Home Sce.: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



Foreign Sce.: Revolutionary Etude by Chopin. - V. by QSL-card.



POLISH PATHFINDERS STATION

(Operated by the Polish Pathfinders Union). - ADDR.: Kenopnickiej 6, Warszawa. - L.P.: Dir. Gen.: K. Soczek. Dir. Te.: J. Sieluzyski. HOME SCE in Polish: 10.00-17.00 on 6850 kc/s 43.80 m 0.35 kW. 71315 kc/s 41.01 m 0.35 kW. ANN.: "Tu Rozgłosnia Harcerska". ("Here is a Polish Pathfinders Union Radiostation"). - INT.-SIG.:



V. by letter. R.p. - F.P.L.: Power to 1 kW.

★ PORTUGAL ★

L.T.: GMT (GMT + 1 h. from 1st Sun. in April to 1st Sun. in October). - Pr.L.: Portuguese. - Po.: 9.000.000. - Revrs.: 848.008. - E.C.: 110/220 V., A.C., 50/60 c/s, D.C.

EMISSORA NACIONAL DE RADIODIFUSAO (Go.)

ADDR.: Rua do Quelhas 2, Lisboa. Cable: "Emissora-Lisboa". Te.: 660181 PBX. - Emissor Regional do Norte: Rua Candido dos Reis, Porto. - Emissor Regional de Coimbra, Faro, Guarda. - Emissor Regional dos Açores: Ponta Delgada, Açores. - L.P.: Dir. Gen.: Dr. J. M. Ferreira. Dir. Tec.: Eng. M. Bivar. Dir. Adm.: Dr. C. Rogeiro. Dir. Prgr.: Eng. J. da Silva Dias. Foreign Sce.: T. Alcaide.

HOME SERVICE

Medium Waves:	kc/s	m	h. of tr.
Lisboa I	665	451.1	135 07.00-24.00 (Sat. 01.00)
Lisboa II	755	397.3	135 12.00-15.00, 19.00-24.00(a)
Norte I	1061	283	25 as Lisboa I
Norte II	719	417	25 as Lisboa II
Porto	1367	219	10 as Lisboa I
Coimbra	1448	207	1 as Lisboa I
Faro	557	539	1 as Lisboa I
Guarda	557	539	1
Covilha	1562	192.1	1 } 13.00-15.10(b), 18.00-24.00
Viseu	1358	220.9	1
Portalegre	1484	202.2	0.1 } 18.00-24.00(c)
Elvas	1358	220.9	0.1 }
Short Waves:			
Atlantico(Lisboa)	11875	25.26	10 10.00-19.00 (d).
	6025	49.79	10 19.00-24.00 (Sat. 01.00)
Açores Regional (Ponta Delgada)	4865	61.66	1 14.00-15.00, 20.00-24.00

FM: Lisboa - 94.30 mc/s 12 kW (ERP) as Lisboa I
Porto - 92.50 - 22 - (ERP) as Lisboa I
(a) Sun. 13.00-24.00 - (b) Sat. 13.00-01.00, Sun. 11.00-24.00 - (c) Sat. 18.00-01.00, Sun. 11.00-24.00 - (d) Sun. 11.00-18.40.
N.: Lisboa I: 07.15, 08.15, 13.00, 18.00, 21.00, 23.45. Lisboa II: 19.50. Porto II, Coimbra, Guarda: 20.30.
ANN.: "Emissora Nacional a transmitir com... (regional tr.)". - V. by QSL-card or letter. - PUB.: "Aqui Lisboa", which contains the s.w. sched. Free upon request.

OVERSEAS SERVICE

Short Waves: All stations Lisboa exc. those marked with * (Ponta Delgada). All stations directional exc. 123, 75 and 61 m.b. All stations 100 kW exc. 2422 kc/s (1), 75 m.b. (10), 61 m.b. (1). Call: CSA---

Portugal - Rumania

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
98	2422*	123.9	25	9680	30.99	39	15100	19.87
73	3980	75.38	27	9740	30.80	35	15110	19.85
74	3990	75.19	28	9746	30.78	36	15120	19.84
93	4845*	61.92	57	9765	30.62	64	15125	19.83
97	4865*	61.66	76	9775	30.79	33	15150	19.80
94	4880*	61.48	40	11720	25.60	34	15160	19.79
206	5960	50.34	208	11755	25.52	37	15320	19.59
78	5976	50.20	31	11840	25.34	65	15355	19.54
207	6020	49.83	58	11875	25.26	42	15380	19.50
52	6025	49.79	59	11895	25.22	43	17740	16.92
29	6185	48.50	30	11915	25.18	79	17815	16.84
38	6360	47.17	92	11915*	25.18	209	17835	16.82
21	6374	47.09	77	11920	25.17	44	17870	16.79
91	7018*	42.75	71	11925	25.16	45	17880	16.78
60	7049	42.56	95	11925*	25.16	46	17890	16.77
55	7130	42.07	72	11930	25.15	66	17895	16.76
53	7225	41.52	96	11930*	25.15	67	21495	13.96
22	7260	41.32	62	11935	25.14	47	21660	13.85
54	7265	41.30	41	11958	25.09	48	21690	13.83
23	9635	31.14	63	11964	25.07	49	21700	13.83
56	9645	31.10	32	11995	25.01	50	25650	11.70
20	9650	31.09	-	12080	24.82	68	25665	11.69
24	9670	31.02	75	15050	19.93	51	25700	11.67

Remark: Powers indicated are the powers at carrier level.

I=Timor, II=Macau, III=India/Pakistan/Persian Gulf, IV=Goa (Portuguese India), V=So. & So. East Africa, We. Africa, Europe, VI=S. Tomé/Angola/Mozambique, VII=Guinea/Cape Verde/Brazil, VIII=No. Atlantic/Portuguese Fishing Fleet, IV=Açores, Madeira, X=No. America.

H. of tr.	Area	kc/s	L	H. of tr.	Area	kc/s	L
09.00-13.00	I	21495	P	21.45-23.40	VI	12080	P
09.00-13.15	II	17880	P	14.00-17.00	VII	17880	P
13.15-14.00	III	21495	E	14.00-17.00	VII	21495	P
14.00-17.00	IV	17880(W)	P	19.30-21.00	VII	17880	P
14.00-17.15	IV	21495	P	19.30-20.00	VII	1915	P
18.15-19.30	V/VI	6025/*	E	21.30-00.30	VIII	11840	P
09.00-13.15	VI	21700	P	09.00-18.00	IX	11875	P
09.00-13.15	VI	17895	P	19.40-23.00	IX	6025	P
17.15-21.30	VI	17895(W)	P	00.00-04.00	X	9740	P
19.30-23.40	VI	15125	P	00.00-04.00	X	6025	P

*) 6025/15125/17880 kc/s. *) Sun. 09.00-19.00. *) Sun. 09.00-21.30.

*) Sat. 24.00.

N.: Portuguese: 00.15, 02.15, 09.30, 11.30, 12.30, 15.00, 18.00, 19.30, 22.15. English: 13.45, 18.30.

ANN.: P.: "Aqui Lisboa, Serviço Ultramarino da Emissora Nacional" or "Lisboa, estúdios da Emissora Nacional". E.: "This is Lisbon Calling" - INT.-SIG.: T-S and National Anthem. - V. by QSL-card. - PUB.: "Aqui Lisboa" quarterly. "Radio e Televisão" weekly. English Prgr. schedule monthly.

RADIO RENASCENÇA (Rel. Catholic)

ADDR.: Emissora Católica Portuguesa, Rua Capelo 5, 2º, Lisboa.

L.P.: Dir. M. Lopez da Cruz.

HOME SERVICE: 07.00-02.00.

Lisboa CSB 3 1286 kc/s 233 m 2 kW - CSB 52 6155 kc/s 48.74 m 3 kW
Porto CSB 30 1169 kc/s 256 m 10 kW - N.: 09.25, 12.45, 18.20, 20.30, 01.50. - ANN.: "Radio Renascença-Emissora Católica Portuguesa" - INT.-SIG.: Gong. Prgr.s open with a religious choir. - V. by QSL-card.

RADIO CLUBE PORTUGUES (Comm. - Sociedade Anonima Cooperativa de Responsabilidade Ltd.)

AD.: 15% of broadc. time.

ADDR.: Central Office: Rua Sampaio e Pina 26, Lisboa. Cable: Radioclube. Te.: 682071 - Northern Branch: Delegação do Norte, Rua de Ceuta 53, Porto. - L.P.: Gen. Mgr.: A.L. Basto. Dir. Tec.: Eng. M. Menezes.

HOME SCE.: kc/s m kW

Miramar CSB9 782 383.6 100 09.00-01.30

Paredes CSB2 1034 290.1 25 06.55-03.00

Paredes CSB51 6080 49.34 10 06.55-03.00

FM: Lisboa CSB55 97.4 mc/s 3 kW: as CSB2 - Porto CSB29 90.7 mc/s 1 kW: as CSB9 - N.: 06.55, 08.45, 12.05, 17.45, 19.45, 23.45, 01.45, 02.55.

ANN.: "Rádio Clube Português a transmitir com as suas estações de onda média, onda curta e modulação de frequência".

INT.-SIG.: Gong. - V. by QSL-card.



RADIO UNIVERSIDADE (Go. - Ministry of National Education)

ADDR.: R. D. Estefânia 14, Lisboa. Te.: 41884. - L.P.: Dr. J. M. Gonçalves Pereira. Dir. Tec.: Eng. J. M. Dias.

HOME SERVICE: 755 kc/s 397 m 135 kW: Cultural and informative prgrs. mainly: W. 18.00-18.55. Sun. 11.00-12.55.

ANN.: "Rádio Universidade, estúdios do Centro Universitário de Lisboa da Mocidade Portuguesa, a transmitir por intermédio da Estação Lisboa 2 da Emissora Nacional" - INT.-SIG.: Opens and closes with the "Marcha da Mocidade Portuguesa" - V. by letter or QSL-card. - F.PL.: FM and s.w. for overseas sce. - PUB.: A Bulletin in Portuguese monthly; sent free of charge.

EMISSORES ASSOCIADOS DE LISBOA (Comm.)

FL.: Private (4 partners). - AD.: 15% of broadc. time. - ADDR.: Praça Antonio Sardenha 2-1º, Lisboa. Te.: 845363. - L.P.: St. Dir.: Dr. F. Laranjeira. Eng. Consultant: C. Barradas da Silva.

R. Peninsular - R. Graca - R. Voz de Lisboa - Clube Radiofonico - CSB4 1594 kc/s 188 m 1 kW: 07.00-02.00 (Sun. 00.00-24.00).

ANN.: "CSB4, Estação de Emissores Associados de Lisboa" - INT.-SIG.: String chords.

EMISSORES DO NORTE REUNIDOS, Porto (Comm.)

ADDR.: R. D. Joao IV, 960, Porto. - D.PRGR.: CSB5 1578 kc/s 190.7 m 10 kW: 07.00-02.00.

RADIO RIBATEJO (Comm.)

FL.: By adv. - ADDR.: Av. D. Rodrigo da Cunha 14, Lisboa. Te.: 72 00 70. - L.P.: Dir. Gen.: J. Varela Santos. Dir. Tec.: A.V. Santos.

HOME SCE. in Portuguese: 10.00-14.00, 17.00-20.00.

Santarem 1322 kc/s 226.9 m 0.4 kW. - N.: 13.45. - INT.-SIG.: Gong. - V. by QSL-card. Re. P., Sp., F., E. - F.PL.: Increase power. Sw., FM.

★ RUMANIA ★

L.T.: GMT+2 h. - Pr.L.: Rumanian. - Po.: 18.300.000. - Rcvrs.: 2.196.000.

RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)

AD.: allowed in special places. Max. 45 mins. per day. - ADDR.: P.O. B. 111, Bucuresti. Cable: Radioteleviziunea. Te.: 13.46.10. - L.P.: Dir. Foreign Relations: D. Natu.

HOME SERVICES:

Stations:	kc/s	m	kW	Stations:	kc/s	m	kW
Stalin	155	1935	150	Bacau	1052	285.3	20
Bucuresti	557	538.6		Cluj	1151	260.9	50
Timisoara II	557	538.6	1	Cluj	1315	228.0	
Timisoara I	755	397.3	50	Baneasa	1428	210.5	5
Bucuresti I	854	351.3	150	Craiova	1457	205.9	20
Miercurea	908	330.0	5	Oradea	1484	202.2	1

Prgr. I: W. 02.53-22.00 on 155/1315/1428 kc/s; 09.57-22.00 on 557 kc/s; 02.53-04.30, 05.00-05.30, 05.45-12.00 on 755 kc/s; 02.53-10.00 on 854 kc/s; 02.53-06.30 on 1052 kc/s; 05.00-05.30, 05.45-06.30 on 908/1151/1484 kc/s; 02.53-04.30, 05.00-08.30 on 1457 kc/s. Sun.: 03.53-22.00 on 155/557/1315/1428 kc/s; 03.53-17.00 on 1428 kc/s. - N.: W. 03.00, 05.00, 08.00, 09.00, 11.00, 13.00, 15.00, 18.00, 20.00, 21.52. Sun. 05.00, 11.00, 17.00, 20.00, 21.52.

Prgr. II: W.: 10.00-22.00 on 854 kc/s; 09.57-12.30, 17.30-22.00 on 908/1151/1485 kc/s; 09.57-22.00 on 1428 kc/s; 09.57-15.30, 17.30-22.00 on 1052 kc/s; 09.57-16.00, 17.00-22.00 on 1457 kc/s; 12.00-13.00, 14.00-14.30 on 755 kc/s. Sun.: 05.00-22.00 on 854 kc/s; 05.00-08.00, 08.30-22.00 on 1052/1457 kc/s; 06.30-07.30, 08.30-14.30, 15.15-22.00 on 908/1151/1485 kc/s; 05.00-06.00, 06.30-07.30, 08.00-14.30, 15.15-17.00 on 755 kc/s; 17.00-22.00 on 1428 kc/s.

N.: W.: 10.00, 12.00, 14.00, 16.00, 19.00, 21.00. Sun.: 05.50, 12.00, 16.00

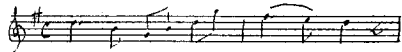
Prgr. III: W.: 02.53-05.00, 05.30-05.45, 12.30-17.30 on 908/1151/1484 kc/s; 04.30-05.00, 05.30-05.45, 13.00-14.00, 14.30-17.00 on 755 kc/s; 04.30-05.00, 16.00-17.00 on 1457 kc/s; 15.30-17.30 on 1052 kc/s. Sun.: 05.00-06.30, 07.30-08.30, 14.30-15.15 on 908/1151/1484 kc/s; 06.00-06.30, 07.30-08.00, 14.30-15.15 on 755 kc/s; 08.00-08.30 on 1052/1457 kc/s.

FOREIGN SERVICE: See last minute information.

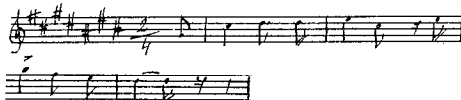
ANN.: Home Sce.: 1st Prgr.: Opening: "Aici Bucuresti, dragi ascultatori, buna dimineata. Transmitem Programul nostru pe statiile de radio cu lungimile de unda de...". 2nd Prgr.: "Aici Bucuresti transmitem Programul II pe statiile de radio cu lungimile de unda de...". Close down: 1st, 2nd Prgr.: "Aici Bucuresti, Dam ora exacta. Emissiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimile de unda de... Dragi ascultatori, noapte buna". - PUB.: Weekly: "Programul de Radio si Televiziune", free on request.

INT.-SIG.:

Home Sce. 1st Prgr.:



Home Sce. 2nd Prgr.:



Every two months first-hand information on the world of broadcasting is offered to you in the

E. B. U. REVIEW

published by the European Broadcasting Union

Part A - Technical - will keep you up-to-date regarding the long- and medium-wave situation in the European Broadcasting Area and the latest developments in the television and sound broadcasting networks on metric waves, including such questions as

wave propagation and frequency assignments in all of the broadcasting bands,

the installation and operation of transmitting stations and studio centres, of recording systems and outside-broadcast facilities, both for sound and television,

Eurovision, etc.

Part B - General and Legal - will inform you of administrative, programme and legal developments in radio and television throughout the world

such as

the activities of international organisations concerned with broadcasting in all non-technical fields,

the progress of radio and television organisations in most countries from the point of view of administration, finance and programmes,

analyses of new Copyright Acts and all legislation and jurisprudence touching upon broadcasting.

ANNUAL SUBSCRIPTION:

Part A (six numbers): price 150 Belgian francs. Publishers: E. B. U. Technical Centre 32, Avenue Albert Lancaster, Bruxelles (Belgium).

Part B (six numbers): price 15 Swiss francs. Publishers: E. B. U. Administrative Office, 1, rue de Varembe, Geneva (Switzerland).

A combined subscription to Parts A and B (twelve numbers) may be ordered either from Brussels or from Geneva (price 300 Belgian francs or 27 Swiss francs).

telecommunication journal

In the increasingly international age in which we live, it is more important than ever that everyone connected with radio should be in touch with authoritative world opinion on radio matters.

The Telecommunication Journal, the official organ of the International Telecommunication Union (ITU), serves just this purpose. Since 1869 (when it first appeared as the "Journal Télégraphique" it has faithfully covered all aspects of telecommunications which come within the purview of the world organization (now a UN specialized agency) set up in 1865 to regulate them.

The Journal has recently been completely revised and modernized.

It contains

- a news section covering the activities of the ITU, of its Member Administrations and of private operating companies and highlighting technical advances in radio throughout the world -
- articles by world experts, with a heavy emphasis recently on the latest developments in space communications -
- a monthly "Telepersonality" featuring an outstanding personality from the telecommunication world -
- a comprehensive list of articles of telecommunication interest appearing in the scientific press throughout the world -
- official ITU information, including lists of forthcoming ITU Conferences and other international telecommunication meetings -
- monthly sunspot predictions.

It is published monthly by the ITU in separate English, French and Spanish editions.

It costs 2 Swiss francs a copy. The annual subscription is 20 francs for one language edition, 30 francs for two and 40 francs for three.

For further information, write to: Telecommunication Journal, ITU, Place des Nations, Geneva, Switzerland.

AUTHORITATIVE

● **READABLE**

● **COMPREHENSIVE**

★ SPAIN ★

L.T.: GMT+1 h. - Pr.L.: Spanish. - Po.: 29.500.000. - Rcvsr.: 2.960.535. - E.C.: 110/220 V., A.C., 50 c/s.

RADIO NACIONAL DE ESPAÑA (Go.)

ADDR.: Paseo de la Castellana, no. 42, Madrid.

L.P.: Dir. Gen.: D. J. M. Revuelta Prieto. Dir. Prgr.: D. D. Porres Gil. Dir. Adm.: D. M. M. Pubul. Dir. Tec. Section: D. J. Sanchez Cordobes. Dir. Pub. Rel.: D. J. de Aguilera Gamonedá.

NATIONAL SERVICE:

	kc/s	m	kW		kc/s	m	kW
Madrid	513	584.0	120	Huelva	850	352.9	5
Madrid-Local	683	439.0	225	Malaga	1007	298.0	6
Sevilla	638	470.5	5	Cuenca	1178	254.7	5
La Coruña	692	434.0	2.5	Madrid	6000	50.00	50
Barcelona	737	407.1	2.5	Malaga	6175	48.58	2
Valencia	773	388.1	5				

FM: 93 mc/s 3 kW (Madrid) - 98 mc/s 1 kW (Barcelona)

Madrid:

Morning prgr.: 04.00-07.00 on 513 kc/s - 1. Prgr.: 07.00-12.00 on 513 kc/s, 07.30-11.30 on 6000 kc/s - Nat. Prgr.: 12.00-24.00 on 513 kc/s, 12.00-21.15 on 683 kc/s, 12.00-16.55 on 6000 kc/s. N. (rel. by all st.): Spanish: 13.30, 18.30, 21.00, 23.00. English on 683 kc/s: 18.30-19.15.

Atlántica: 21.30-23.15 on 6130/9695 kc/s

3rd Prgr.: 21.30-23.30 on 683/6000 kc/s

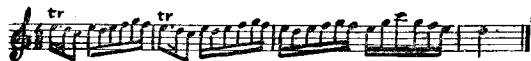
Sevilla: 07.45-24.00 Huelva: 12.00-15.00

La Coruña: 12.00-15.00, 18.30-24.00 17.00-23.00

Barcelona: 08.00-24.00 Malaga: 12.00-24.00

Valencia: 07.00-24.00 Cuenca: 11.00-24.00

INT.-SIG.: Sintonía para Servicio:



Señal de pausa:



ANN.: "Transmite Radio Nacional de España desde sus estudios en Madrid".

FOREIGN SERVICE

Madrid-Arganda: 100 kW exc. *50 kW.

	1022 kc/s	293.0 m	*9366 kc/s	32.04 m	9695 kc/s	30.94 m
6130	-	48.94	-	9370	-	32.01
7108	-	42.20	-	9585	-	31.30
7140	-	42.02	-	9605	-	31.23
7500	-	40.00	-	9677	-	31.00

EUROPEAN AND OVERSEAS SERVICE

	kc/s		kc/s		kc/s
Arabic:		French:		Rumanian:	
15.30-17.30	9370	20.50-21.20	7108	06.20-06.40	7108
14.00-14.45	6130		9370	15.35-15.55	9370
19.00-19.45	6130	13.15-14.00	6130	19.20-19.40	7108
23.30-00.15	6130	18.15-19.00			
		22.45-23.30			
Chinese:		German:		Russian:	
11.45-12.15	11860	21.20-21.40	7108	04.30-05.00	7108
14.30-15.00	11860		9370	13.45-14.15	9370
				17.30-18.00	7108
Czech:		Hungarian:		Spanish:	
03.45-04.00	7108	06.00-06.20	7108	22.45-23.57	9370
13.00-13.15	9370	15.15-15.35	9370	23.57-02.57	11860
16.45-17.00	7108	19.00-19.20	7108	11.30-12.30	15420
				23.30-00.30	9370
English:		Italian:		10.15-11.15	
20.20-20.50	7140	21.40-22.00	7108	12.30-13.15	6130
	9370		9370	17.10-18.15	
03.15-04.00	7500			22.00-22.45	
04.15-05.00	9370	Portuguese:		20.30-22.00	6130
05.15-06.00		22.15-22.45	9370	12.15-12.30	11860
			11860	19.45-20.15	6130

1) Morocco. 2) Gt. Britain. 3) USA East. 4) USA West. 5) USA all states. 6) Brazil. 7) Spaniards living in America. 8) Latin America. 9) Philippines. 10) Atlantic. 11) Missionaries in the East. 12) Spaniards living in Europe.

See advertisement page 95.

ANN.: E.: "This is the voice of Spain broadcasting from the Spanish National Radio in Madrid".

INT.-SIG.: Gong and the following tune:



V. by QSL-card or letter. - PUB.: Teleradio (weekly).

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)

(Broadcasting System of the Phalanx)

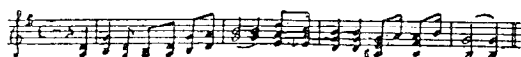
The Red de Emisoras del Movimiento belongs to the National Delegation of Press, Propaganda and Radio.

FI.: by own resources. - AD.: 10 min. per h. ADDR.: Ayala, No. 15, Madrid 1. - Te.: 2.36.72.05. - L.P.: National Delegate: J. M. del Moral. Dir.: A. Arias. Adm.: M. Ayuso. Chief Eng.: M. Vázquez. Coordination: J. Jiménez. Prgr.: J. Leon. Public Relations: L. Rodríguez. Main Station: EFE14 "La Voz de Madrid". - L.P.: Dir.: T. Delgado. Chief Tec.: G. Cabañas. Prgr.: M. Rojas. Prod.: C. Barber. Adm.: E. Calvete.

STATIONS:

Call	EEF...	Name	kc/s	m	kW	Hors of tr.
1		La Voz de Valladolid	1385	217	1	10.00-24.00
2		Radio Teruel	1480	203	2	11.00-14.30, 19.00-23.00
4		Radio Palencia	1358	220.9	1	11.00-23.00
5		La Voz de León	1250	240	1.5	09.00-24.00
6		Radio Cáceres	1079	278.3	2	12.00-15.00, 18.30-23.30
7		Radio Denia	1403	213	0.4	11.30-15.00, 18.00-22.00
8		La Voz de Alicante	1358	220.9	2	08.30-23.30
9		Radio V. del Panadés	1079	278	0.2	12.00-14.00, 19.00-22.00
10		Radio Alava	1385	216.6	0.2	09.00-15.00, 17.00-23.00
11		Radio Uriel	1358	220.9	0.19	11.30-15.00, 19.30-23.00
12		Radio Monóvar	1575	190.6	0.05	10.00-16.00, 18.00-23.00
13		Radio Sagunto	1440	208.5	1	10.00-15.00, 18.00-23.00
14		La Voz de Madrid	1223	245.3	20	07.00-24.00
15		Radio Ferrol	1368	219.3	0.8	11.00-16.00, 18.00-23.00
16		Radio Puigcerdá	1079	278.3	1	11.00-14.30, 17.00-21.30
17		La Voz de Levante	1079	278.3	5	07.00-24.00
18		Radio Játiva	1358	220.9	0.5	10.00-15.00, 18.00-23.00
20		Radio Ripoll	1480	202.7	0.07	20.00-22.00, 11.00-22.00
21		Radio Cazorla	1120	267	0.3	12.00-16.00, 17.00-21.00
22		Radio Oviedo	1079	278.3	5	09.00-23.30
23		La Voz de Guipúzcoa	1304	230	5	08.00-23.30
24		Radio Orihuela	1403	213	0.2	10.00-15.00, 17.00-23.30
25		Radio Cantabria	1358	220	0.8	09.00-24.00
26		Radio Luear	1428	210	0.4	10.30-15.00, 18.30-21.15
27		Radio Maresma	1480	203	0.3	11.00-15.00, 18.30-22.30
28		Radio Tortosa	1607	187	0.9	09.00-15.00, 18.00-22.00
29		Radio Tudela	1480	202.7	2	10.00-15.00, 18.00-23.00
31		La Voz de Vigo	1079	278.3	5	07.00-24.00
32		Radio Avila	1480	202.7	20	07.00-24.00
33		Radio Tarragona	1570	191.1	5	09.00-15.00, 18.00-23.00
34		Radio Atlántico	1480	203.4	2	07.00-08.00, 10.00-10.30, 17.00-23.00
35		Radio Tárrega	1480	202.7	0.37	10.00-23.00
38		Radio Badajoz	1390	215.8	5	07.30-10.30, 18.00-23.30, 18.00-23.00
39		Radio Berga	1385	216.6	0.45	11.00-15.00, 18.00-22.00
40		La Voz de la Costa Brava	1250	240	0.35	10.00-15.00, 19.00-23.00
41		Radio Olot	1250	240	0.2	11.00-15.00, 18.00-22.00
42		Radio Sueca	1358	220.9	0.5	11.00-15.00, 18.30-23.00
43		Radio Requena	1480	202.7	0.5	12.00-15.00, 20.00-23.00
44		Radio Picasent	1196	251	0.3	11.00-15.00, 17.00-23.00
45		La Voz de Granada	1250	240	2	08.00-24.00
46		Radio Guaduasur	1358	221	0.1	11.30-14.00, 19.00-23.00
47		Radio Cullera	1385	216.6	0.2	12.00-15.00, 19.00-23.00
48		Radio Carlet	1209	248	0.4	10.00-22.30
49		Radio Chelva	1385	216.6	0.06	12.00-14.00, 20.00-22.00
50		La Voz de Cataluña	1358	221	5	07.00-24.00
51		Radio Mora de Ebro	1385	216.6	0.04	11.00-15.00, 19.00-23.00
52		Radio Vendrell	1385	216.6	0.04	11.30-14.30, 19.00-22.30
53		Radio Roda de Ter	1480	203.4	0.02	12.00-14.00, 19.00-21.00
54		Radio Cardona	1500	200	0.04	18.00-21.00
55		Radio Vich	1540	195	0.6	11.00-23.00
56		Radio Blanes	1079	278	0.2	11.00-16.00, 19.00-22.00
57		La Voz de Navarra	1079	278	5	09.00-16.00, 19.00-23.00
59		Radio Manises	1151	260.6	0.3	09.00-23.00
61		Radio Adra	1518	197.6	0.06	12.30-15.00, 19.30-22.00
62		La Voz de Burriana	1460	205.4	0.4	11.00-23.00

ANN.: "EEF... La Voz de..." or "Radio... de la Red de Emisoras del Movimiento" - V. by letter.

**CADENA AZUL DE RADIODIFUSION**
(Delegación Nacional de Juventudes)

Organization: For the educational work of Radio in Spain and for

RADIO NACIONAL DE ESPAÑA

HABLA PARA EL MUNDO
HORAS EN GMT

En chino:	De 11.45 a 12.15, por 25.3 m. De 14.30 a 15.00 por 25.3 m.
En árabe:	De 15.30 a 17.30, por 32.01 m. Para Marruecos: de 14 a 14.45 de 19 a 19.45 de 23.30 a 0.15 } por 49 m.
En ucraniano:	De 03.30 a 03.45, por 42.2 m. De 12.45 a 13.00, por 32.01 m. De 16.30 a 16.45, por 42.2 m.
En checo:	De 03.45 a 04.00, por 42.2 m. De 13.00 a 13.15, por 32.01 m. De 16.45 a 17.00, por 42.2 m.
En croata:	De 04.15 a 04.30, por 42.2 m. De 13.30 a 13.45, por 32.01 m. De 17.15 a 17.30, por 42.2 m.
En letón:	De 04.00 a 04.15, por 42.2 m. De 13.15 a 13.30, por 32.01 m. De 17.00 a 17.15, por 42.2 m.
En ruso:	De 04.30 a 05.00, por 42.2 m. De 13.45 a 14.15, por 32.01 m. De 17.30 a 18.00, por 42.2 m.
En bieloruso:	De 17.30 a 18.00, por 32.01 m. De 19.45 a 20.15, por 32.01 m.
En estoniano:	De 05.00 a 05.15, por 42.2 m. De 14.15 a 14.30, por 32.01 m. De 18.00 a 18.15, por 42.2 m.
En búlgaro:	De 05.15 a 05.30, por 42.2 m. De 14.30 a 14.45, por 32.01 m. De 18.15 a 18.30, por 42.2 m.
En lituano:	De 05.30 a 05.45, por 42.2 m. De 14.45 a 15.00, por 32.01 m. De 18.30 a 18.45, por 42.2 m.
En eslovaco:	De 05.45 a 06.00, por 42.2 m. De 15.00 a 15.15, por 32.01 m. De 18.45 a 19.00, por 42.2 m.
En húngaro:	De 06.00 a 06.20, por 42.2 m. De 15.15 a 15.35, por 32.01 m. De 19.00 a 19.20, por 42.2 m.
En rumano:	De 06.20 a 06.40, por 42.2 m. De 15.35 a 15.55, por 32.01 m. De 19.20 a 19.40, por 42.2 m.
En polaco:	De 06.40 a 07.10, por 42.2 m. De 15.55 a 16.25, por 32.01 m. De 19.40 a 20.10, por 42.2 m.
En inglés:	(Para Inglaterra): De 20.20 a 20.50 horas, por 42.2 y 32.01 metros. (EE.UU. Costa Atlántica): De 03.15 a 04.00 horas, por 40 y 32.01 metros. (EE.UU. Costa Pacífico): De 04.15 a 05.00 horas, por 40 y 32.01 metros. (EE.UU. General para los Estados): De 05.15 a 06.00 horas, por 40 y 32.01 metros.
En francés:	De 20.50 a 21.20 horas, por 42.2 y 32.01 m. (Para Marruecos): 13.15 a 14.00, 18.15 a 19.00, 22.45 a 23.30 horas, por 49 metros.
En alemán:	De 21.20 a 21.40 horas, por 42.2 y 32.01 m.
En italiano:	De 21.40 a 22.00 horas, por 42.2 y 32.01 m.
En portugués:	(Para Brasil): De 22.15 a 22.45, por 32.01 y 25.3 metros.
En español:	(Para españoles residentes en América): De 22.45 a 23.57 por 32.01 y 25.3 metros. (Para Hispanoamérica): De 23.57 a 02.57, por 32.01 y 25.3 metros. (Para Filipinas): De 11.30 a 12.30, por 19 metros. De 23.30 a 00.30, por 32 metros. Para Marruecos: De 10.15 a 11.15 } De 12.30 a 13.15 } por 49 m. De 17.10 a 18.15 } De 22.00 a 22.45 }
	Atlántica: De 20.30 a 22.00, por 49 m. Misioneros en Oriente: De 12.15 a 12.30, por 25.3 m. Para españoles residentes en Europa: De 19.45 a 20.15, por 49 m.

Treinta y cuatro servicios informativos, en veinte idiomas, lle-
van así a todos los países LA VOZ DE ESPAÑA.

RADIO NACIONAL DE ESPAÑA

SPEAKS TO THE WORLD
TIMES IN GMT

In Chinese:	From 11.45 to 12.15 on 25.30 m. From 14.30 to 15.00 on 25.30 m.
In Arabic:	From 15.30 to 17.30 on 32.01 m. (To Morocco): From 14.00 to 14.45, 19.00 to 19.45, 23.30 to 00.15 on 49 m.
In Ukrainian:	From 03.30 to 03.45 on 42.20 m. From 12.45 to 13.00 on 32.01 m. From 16.30 to 16.45 on 42.20 m.
In Czech:	From 03.45 to 04.00 on 42.20 m. From 13.00 to 13.15 on 32.01 m. From 16.45 to 17.00 on 42.20 m.
In Croatian:	From 04.15 to 04.30 on 42.20 m. From 13.30 to 13.45 on 32.01 m. From 17.15 to 17.30 on 42.20 m.
In Latvian:	From 04.00 to 04.15 on 42.20 m. From 13.15 to 13.30 on 32.01 m. From 17.00 to 17.15 on 42.20 m.
In Russian:	From 04.30 to 05.00 on 42.20 m. From 13.45 to 14.15 on 32.01 m. From 17.30 to 18.00 on 42.20 m.
In Bielorrussian:	From 17.30 to 18.00 on 32.01 m. From 19.45 to 20.15 on 32.01 m.
In Estonian:	From 05.00 to 05.15 on 42.20 m. From 14.15 to 14.30 on 32.01 m. From 18.00 to 18.15 on 42.20 m.
In Bulgarian:	From 05.15 to 05.30 on 42.20 m. From 14.30 to 14.45 on 32.01 m. From 18.15 to 18.30 on 42.20 m.
In Lithuanian:	From 05.30 to 05.45 on 42.20 m. From 14.45 to 15.00 on 32.01 m. From 18.30 to 18.45 on 42.20 m.
In Slovak:	From 05.45 to 06.00 on 42.20 m. From 15.00 to 15.15 on 32.01 m. From 18.45 to 19.00 on 42.20 m.
In Hungarian:	From 06.00 to 06.20 on 42.20 m. From 15.15 to 15.35 on 32.01 m. From 19.00 to 19.20 on 42.20 m.
umanian:	From 06.20 to 06.40 on 42.20 m. From 15.35 to 15.55 on 32.01 m. From 19.20 to 19.40 on 42.20 m.
In Polish:	From 06.40 to 07.10 on 42.20 m. From 15.55 to 16.25 on 32.01 m. From 19.40 to 20.10 on 42.20 m.
In English:	(to Gt. Britain): From 20.20 to 20.50 on 42.20 and 32.01 m. (to USA, Atlantic Coast): From 03.15 to 04.00 on 40 and 32.01 m. (to USA, Pacific Coast): From 04.15 to 05.00 on 40 and 32.01 m. (to USA all States): From 05.15 to 06.00 on 40 and 32.01 m.
In French:	From 20.50 to 21.20 on 42.20 and 32.01 m. (to Morocco): From 13.15 to 14.00, 18.15 to 19.00, 22.45 to 23.30 on 49 m.
In German:	From 21.20 to 21.40 on 42.20 and 32.01 m.
In Italian:	From 21.40 to 22.00 on 42.20 and 32.01 m.
In Portuguese:	(to Brazil): From 22.15 to 22.45 on 32.01 and 25.30 m.
In Spanish:	(to Spaniards living in America): From 22.45 to 23.57 on 32.01 and 25.30 m. (to Latin America): From 23.57 to 02.57 on 32.01 and 25.30 m. (to Philippines): From 11.30 to 12.30 on 19 m. From 23.30 to 00.30 on 32 m. (to Morocco): From 10.15 to 11.15 } From 12.30 to 13.15 } on 49 m. From 17.10 to 18.15 } From 22.00 to 22.45 }
	(Atlantic): From 20.30 to 22.00 on 49 m. (to Missionaries in the East): From 12.15 to 12.30 on 25.3 m. (to Spaniards living in Europe): From 19.45 to 20.15 on 49 m.

THE VOICE OF SPAIN brings thirtyfour informatory broad-
casts in twenty languages to all countries.

Spain

training of people engaged with Radio. - ADDR.: Diego de Leon 47, Madrid 6, Cable: Cadenazul. Te.: 2-26-74-89. - L.P.: Dir. of the Service: Dir. Gen.: Jaime Suárez A.

STATIONS: Call EFJ—. Name: R. Juventud de—.

Call Name	kc/s	m	kW	Hours of tr.
1. España	1079	278.0	2	07.00-02.00
2. Soria	1106	271.2	2	10.00-24.00
3. Martorell	1187	252.7	0.1	13.00-16.00, 20.00-23.00
4. Igualada	1187	252.7	0.1	13.00-16.00, 20.00-23.00
5. Cadiz	1187	252.7	2	10.00-24.00
6. Almansa	1187	252.7	0.1	13.00-16.00, 20.00-23.00
7. Plasencia	1187	252.7	0.8	13.00-16.00, 20.00-23.00
8. Ribadavia	1187	252.7	0.4	13.00-16.00, 20.00-23.00
9. Guadalajara	1250	240.0	0.8	13.00-16.00, 20.00-23.00
10. Algemsi	1106	271.2	0.8	13.00-16.00, 20.00-23.00
11. La Coruña	1106	271.2	2	08.00-01.00
12. Sabadell	1106	271.2	0.8	12.00-16.00, 19.00-24.00
13. Granollers	1187	252.7	0.28	12.00-16.00, 19.00-24.00
14. San Feliú	1187	252.7	1	10.00-24.00
15. Barcelona	1250	240.0	5	07.00-02.00
16. Mérida	1106	271.2	0.8	13.00-16.00, 20.00-23.00
17. Ayora	1250	240.0	0.08	13.00-16.00, 20.00-23.00
18. Villacarrillo	1187	252.7	0.8	12.00-16.00, 19.00-24.00
19. Murcia	1106	271.2	2	08.00-01.00
20. Villanueva	1106	271.2	0.04	13.00-16.00, 20.00-23.00
21. Barbastro	1187	252.7	0.8	12.00-16.00, 19.00-24.00
22. Menorca	1187	252.7	0.8	13.00-16.00, 20.00-23.00
23. Albacete	1187	252.7	0.8	10.00-24.00
24. Molins de Rey	1187	252.7	0.1	13.00-16.00, 20.00-23.00
25. Almería	1187	252.7	2	10.00-24.00
26. Cartagena	1187	252.7	0.8	10.00-24.00
28. Baza	1250	240.0	0.8	13.00-16.00, 20.00-23.00
29. Ponferrada	1187	252.7	0.8	12.00-24.00
30. Laredo	1187	252.7	0.4	12.00-24.00
31. Balaguer	1250	240.0	2	12.00-16.00, 19.00-24.00
32. Motril	1187	252.7	0.08	12.00-16.00, 19.00-24.00
33. Villena	1250	240.0	0.4	13.00-16.00, 20.00-23.00
34. Osuna	1250	240.0	0.8	13.00-16.00, 20.00-23.00
35. Burjasot	1187	252.7	0.8	10.00-24.00
36. Alcañiz	1187	252.7	0.8	13.00-16.00, 20.00-23.00
37. Talavera	1250	240.0	0.4	12.00-16.00, 19.00-24.00
38. Bejar	1250	240.0	0.4	13.00-16.00, 19.00-23.00
39. Seo de Urgel	1187	252.7	0.25	13.00-16.00, 20.00-23.00
40. Aranjuez	1187	252.7	0.4	13.00-16.00, 20.00-23.00
41. Sama de Langreo	1106	271.2	0.4	10.00-24.00
42. Eibar	1106	271.2	0.4	12.00-16.00, 19.00-24.00
43. Vizcaya	1250	240.0	2	08.00-01.00
44. Torrelavega	1250	240.0	0.8	10.00-24.00
45. Inca	1106	271.2	2	10.00-24.00
46. Zaragoza	1106	271.2	2	08.00-01.00
47. Melilla	1250	240.0	0.4	13.00-16.00, 20.00-23.00
48. Monforte de Lemos	1250	240.0	0.4	13.00-16.00, 20.00-23.00
49. Villareal	1106	271.2	0.8	13.00-16.00, 20.00-23.00
50. Calahorra	1250	240.0	0.8	12.00-24.00
51. Ayamonte	1106	271.2	0.8	13.00-16.00, 20.00-23.00
52. Aranda de Duero	1250	240.0	0.8	12.00-16.00, 19.00-24.00
53. Miranda de Ebro	1187	252.7	0.4	13.00-16.00, 20.00-23.00
54. San Clemente	1250	240.0	0.8	13.00-16.00, 20.00-23.00
55. Gibraltár	1187	252.7	1	10.00-24.00
56. Málaga	1106	271.2	2	07.00-02.00
57. Canarias	1106	271.2	1	10.00-24.00
58. Felanitx	1250	240.0	0.08	13.00-16.00, 20.00-23.00
59. Ciudad Rodrigo	1106	271.2	0.08	13.00-16.00, 20.00-23.00
60. Valdepeñas	1250	240.0	0.4	12.00-16.00, 19.00-24.00

D.PRGR.: Consist of cultural and educational prgrs., information service about the youth-work, actualities and entertainment.

ANN.: "Habla RADIO JUVENTUD DE... Estacion num... de la Cadena Azul de Radiodifusión". - INT.-SIG.: Vibrafon -



SOCIEDAD ESPAÑOLA DE RADIODIFUSION (Comm.)

FI.: By adv. - ADDR.: Av. de José Antonio 32 Apt. 745 Madrid. Cable: SER. Te.: 2-22-11-81. - L.P.: Pres.: A. Garrigues Díaz-Cañabate. Dir. Gen.: V. Onate Sánchez. Subdir. Gen.: R. Varela Pol. Sec. Gen.: E. Fontán Pérez. Dir. Tec.: F. Martínez González. Dir. Prgr.: M. Rodríguez Cano. Dir. Comm.: M. Josefa Rubio. Dir. Traffic: B. Moreno Hidalgo.

STATIONS (Main st.s.)

Call	kc/s	m	kW	h. of tr.
R. Barcelona	EAJ1	827	362	10 06.15-24.00*
R. Valencia	EAJ3	1259	238.3	5 07.00-24.00
R. Galicia	EAJ4	1428	207.2	2 10.00-23.00
R. Sevilla	EAJ5	800	375.0	5 07.30-24.00
R. Madrid	EAJ7	809	370.8	20 07.00-24.00*
R. San Sebastián	EAJ8	1025	292.7	5 08.00-23.30
R. Reus	EAJ11	1412	212.5	2 10.30-23.30
R. Bilbao	EAJ28	1133	264.8	5 09.00-23.30
R. Alicante	EAJ31	1448	207.2	2 10.00-23.30
R. Alcira	EAJ54	1493	200.9	2 09.00-23.30
R. Mediterráneo Valencia FM:		97 mc/s	5	11.00-15.00-18.00-23.30

* Provisional freq's.

ASSOCIATED STATIONS:

Call	kc/s	m	kW	h. of tr.
R. Requete de Navarra (Pamplona)	EAJ6	1492	201.1	2 10.00-00.15
R. Mallorca	EAJ13	1430	209.8	5 08.55-24.00
R. Castellón	EAJ14	1502	199.7	2 09.00-24.00
R. Granada	EAJ16	1448	207.2	2 09.00-00.15
R. Murcia	EAJ17	1511	198.5	2 08.00-24.00
R. Rioja (Logroño)	EAJ18	1487	202.1	2 09.30-24.00
R. Asturias (Oviedo)	EAJ19	1268	236.6	5 10.00-24.00
R. Huesca	EAJ22	1475	203.4	2 10.30-24.00
R. Gandia	EAJ23	1412	212.5	2 09.00-24.00
R. Castilla (Burgos)	EAJ27	1448	207.2	2 12.00-24.00
R. Santander	EAJ32	1484	202.2	2 11.00-00.30
R. Gijón	EAJ34	1492	201.1	2 11.00-24.00
R. Pontevedra	EAJ40	1493	200.9	2 12.00-24.00
R. Coruña	EAJ41	1295	231.7	2 13.00-24.00
R. Albacete	EAJ44	1493	200.9	2 09.30-00.30
R. Valladolid	EAJ47	1475	203.4	2 10.00-00.05
R. Vigo	EAJ48	1403	214.0	2 08.00-00.45
R. Las Palmas	EAJ50	1313	228.5	0.5 09.00-24.00
R. Extremadura	EAJ52	1484	202.2	2 09.00-24.00
R. Salamanca	EAJ56	1331	225.4	2 11.00-24.00
R. Jerez	EAJ58	1492	201.1	2 12.00-23.00
R. Almería	EAJ60	1420	211	1 10.30-24.00
R. Jaén	EAJ61	1450	207	2 11.00-24.00
R. Vitoria	EAJ62	1385	216.6	2 10.00-24.00
R. Leon	EAJ63	1502	199.7	2 10.00-24.00
R. Segovia	EAJ64	1502	199.7	2 12.00-24.00
R. Ciudad Real	EAJ65	1493	200.9	2 17.30-23.00
R. Lugo	EAJ68	1487	201.7	3 11.00-24.00
R. Zamora	EAJ72	1375	218	2 11.00-24.00
R. Zaragoza	EAJ101	872	344	30 08.00-24.00

NATIONAL SERVICE:

The prgrs. of Sociedad Española are rel. simultaneously by all st.'s at the following hours: Mo: 20.00-20.45, 21.30-22.00; Tues., Fri.: 19.30-20.45, 21.30-22.30; Sat.: 19.30-20.45, 21.30-24.00; Sun.: 16.00-19.00. ANN.: National Service: "Transmite la Sociedad Española de Radiodifusión". Local Service: "Transmite Radio... de la Sociedad Española de Radiodifusión". INT.-SIG.:



V. by letter. - PUB.: "ONDAS" fortnightly.

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)

ADDR.: Diego de Leon, 50, Madrid. Cable: Ondatlantic. HOME SERVICE: EAJ29 953 kc/s 314.8 m 20 kW: 09.00-02.00.

RED DE EMISORAS DEL MOVIMIENTO (R. E. M.)

EMISORA CENTRAL EFE 14 "LA VOZ DE MADRID"

Ayala num. 15, Madrid 1 - SPAIN

- | | | |
|---|--|---|
| EFE 23 La Voz de Guipúzcoa
Victor Pradera, 12. - San Sebastián. | EFE 39 Radio Berga
Plaza. San Pedro, 9. Berga (Barcelona). | EFE 15 Radio Ferrol
José Antonio, 75. El Ferrol del Caudillo (La Coruña). |
| EFE 22 Radio Oviedo
Asturias, 9. - Oviedo. | EFE 54 Radio Cardona
Plaza. Generalísimo, 5. Cardona (Barcelona). | EFE 44 Radio Picasent.
Santa Ana, 11. Picasent (Valencia). |
| EFE 26 Radio Luearca
Luearca (Asturias). | EFE 16 Radio Puigcerdá.
Plaza Mayor, 19. Puigcerdá (Gerona). | EFE 46 Radio Guaduasuar.
Santa Lucia, 11. Guaduasuar (Valencia). |
| EFE 31 La Voz de Vigo
Avda. García Barbón, 3. Vigo (Pontevedra) | EFE 40 La Voz de la Costa Brava.
Ave Maria, 3. Palamós (Gerona). | EFE 47 Radio Cullera.
Doctor Alemany, 6. Cullera (Valencia). |
| EFE 25 Radio Cantabria
Pasaje del Arcillero, 2. Santander. | EFE 41 Radio Olot
Plaza del Carmen. Olot (Gerona) | EFE 48 Radio Carlet.
Maestro Martinez, 5. Carlet (Valencia). |
| EFE 4 Radio Palencia
Becerro de Bengoa s/n. Palencia. | EFE 53 Radio Roda de Ter.
Bach, 43. Roda de Ter (Barcelona). | EFE 49 Radio Chelva.
Clavel, 18. Chelva (Valencia). |
| EFE 57 La Voz de Navarra
Navarro Villoslada, 17. Pamplona. | EFE 55 Radio Vich
San Antonio, 4. Vich (Barcelona). | EFE 59 Radio Manises.
Valencia, Manises (Valencia). |
| EFE 10 Radio Alava
Calvo Sotelo, 34. Vitoria. | EFE 56 Radio Blanes.
Mercaderes, 4. Blanes (Gerona). | EFE 8 La Voz de Alicante
Angel Lozano, 14. Alicante. |
| EFE 5 La Voz de León
Ordoño II, 28. León. | EFE 62 La Voz de Burriana
Ayuntamiento-Burriana (Castellón). | EFE 7 Radio Denia.
Marqués del Campo, 23. Denia (Alicante). |
| EFE 1 La Voz de Valladolid
Augustias, 1. Valladolid. | EFE 17 La Voz de Levante
Pascual y Genis, 27. Valencia. | EFE 12 Radio Monovar.
Mayor, 129. Monevar (Alicante). |
| EFE 33 Radio Tarragona
Hermanos Landa, 21. Tarragona | EFE 11 Radio Utiel.
Alamos, 4. Utiel (Valencia). | EFE 24 Radio Orihuela.
Ramón y Cajal, 38. Orihuela (Alicante). |
| EFE 51 Radio Mora de Ebro.
Valle, 9. Mora de Ebro (Tarragona). | EFE 13 Radio Sagunto.
Comandante Padin Arnaiz, 7. Sagunto (Valencia). | EFE 6 Radio Cáceres
General - Primo de Rivera, 1. Cáceres. |
| EFE 52 Radio Vendrell
San Magin, 5. Vendrell (Tarragona). | EFE 18 Radio Játiva.
Moncada, 14. Játiva (Valencia). | EFE 61 Radio Adra.
Adra (Almería). |
| EFE 50 La Voz de Cataluña
Córcega num. 291. Barcelona 8. | EFE 42 Radio Sueca.
Plaza de los Reyes Católicos, 9. Sueca (Valencia). | |
| EFE 9 Radio Villafranca del Panadés
Plaza. Generalísimo, 13. Villafranca del Panades (Barcelona). | EFE 43 Radio Requena.
Villajoyosa, 3. Requena (Valencia). | |

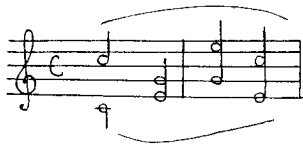
Spain - Sweden

AFFILIATED STATIONS:

Name	kc/s	m	kW	Name	kc/s	m	kW
R. Alcoy	1490	201	0.8	R. Onteniente	1500	209	0.5
R. Algeciras	1511	198	1.5	R. Orense	1492	200	0.2
R. Alicante	7940	37.78	1.2	R. Asturias	1258	238	0.35
R. Almería	1493	201	0.2	R. Andorra	998	301	140
R. Cadiz	1495	201	0.2	R. Elche	1519	197	0.2
R. Córdoba	1447	207	0.2	R. Gibraltar	1250	240	1.25
R. Huelva	850	352	2	R. Tenerife	1097	273	1.25
R. Lérida	1492	201	0.2	R. Inca (Baleares)	1106	271	2
R. Linares	1492	201	0.2	R. Miramar			
R. Lugo	1500	200	0.2	Barcelona	1313	228.5	1.5
R. Málaga	989	308	8				
R. Manresa	1492	201	0.2				

ANN.: "Aqui Madrid Emisora Radio Intercontinental". - INT.-SIG.:

V. by QSL-card or by letter.



RADIO ESPANA

FL.: by Go. - AD.: Allowed, all day.

ADDR.: Manuel Silvela, 9, Madrid. Cable: Radioespaña. Te.: 2-23-29-40. - L.P.: Dir.: M. R. Zuasti. Dir. Tec.: L. Caceres.

HOME SCE.: Madrid EAJ 2 854 kc/s 351.2 m 15 kW: 07.00-24.00.

ADDR.: Ramblas 126, Barcelona.

HOME SCE.: EAJ15 1124 kc/s 266.9 m 3 kW: 12.30-23.00.

RUEDA DE EMISORAS RATO

ADDR.: Jorge Juan 27, Madrid. Te.: 2-36-04-07. - L.P.: Dir. Gen.: D. Ramon de Rato. Dir. Publicity: D. A. Ceballos. HOME SERVICE:

EAJ49 R. Toledo 1142 kc/s 262.7 m 5 kW: 11.30-17.00, 20.30-00.30.

STATIONS

Name	kc/s	m	kW	Name	kc/s	m	kW
EAJ60 R. Almería	1394	215.2	2	EAJ19 R. Asturias	1268	236.6	5
EAJ26 R. Antequera	1367	219.5	2	EAJ50 R. Cadiz	1322	226.9	2
				EAJ35 R. Panades	1094	274	2

CADENA DE ONDAS POPULARES ESPANOLAS (COPE)

ADDR.: Alfonso XI, 4, 1º, Madrid. - L.P.: Dir.: D. Modesto R. de Castroviejo. Delegado Radio y TV: Rvdo P. L. Fierro. Secr. Gen.: F. Bueno de Linares.

STATIONS: E.O.P. num—.

kc/s	kW	kc/s	kW
1 1142 2	R. Popular de Madrid	37 1142 1	Benavente
2 1097 2	Sevilla	38 1322 2	Gerona
3 1097 2	Burgos	39 1322 2	Granada
4 1097 2	Pamplona	40 1142 2	Jaén
5 1097 2	Valencia	41 1097 1	Estepona
6 1304 2	Zaragoza	42 1358 1	Vélez Málaga
7 1304 2	Barcelona	43 1322 2	El Ferrol
8 1304 2	Santiago	44 1322 2	San Sebastián
9 1322 2	Valladolid	45 1358 2	Avila
10 1142 2	Oviedo	46 1322 2	Albacete
11 1142 2	Málaga	47 1097 2	Vich
12 1304 2	Murcia	48 1358 2	Astorga
13 1358 2	Bilbao	49 1142 1	Altea
14 1322 2	Huelva	50 1358 2	La Coruña
15 1097 2	Lérida	51 1142 2	Tortosa
16 1304 2	Vitoria	52 1358 2	Guadalajara-Sigüenza
17 1304 2	Cádiz	53 1322 2	Tarragona
18 1358 2	Mallorca	54 1304 1	Alcoy
19 1304 2	Salamanca	55 1142 1	Requena
20 1304 2	Córdoba	56 1322 1	Alcira
21 1142 2	Badajoz	57 1358 2	Cáceres
22 1358 2	Ciudad Real	58 1097 2	Lugo
23 1322 1	Puertoollano	59 1322 2	Orense
24 1322 1	Ibiza	60 1322 2	Plasencia
25 1304 2	León	61 1304 2	Segovia
26 1097 2	Zamora	62 1142 2	Solsona
27 (Onda trop.)	2 Fernando Poo	63 1358 2	Tarragona
28 1142 1	Ciezo	64 1097 2	Tenerife
29 1322 1	Lorca	65 1322 2	Teruel
30 1142 1	San Javier	66 1142 1	Calatayud
31 1358 2	Orihuela-Alicante	67 1322 2	Menorca
32 1322 1	Elda	68 1322 2	Santander
33 1142 2	Vigo	69 1358 2	Almería
34 1142 2	Logroño	70 1322 2	Soria
35 1322 2	Las Palmas	71 1358 2	Barbastro
36 1097 2	Toledo		

kc/s	kW	kc/s	kW
72 1097 2	Ciudad Rodrigo	78 1358 2	Segorbe
73 1304 2	Cuenca	79 1304 2	Seo de Urgel
74 1097 2	Guadix-Baza	80 1322 2	Alora (Málaga)
75 1322 2	Huesca	81 1358	Zozoblanco
76 1142 2	Jaca	82 1097	Figueras
77 1358 2	Palencia	83 1304	Gúmar

★ SWEDEN ★

L.T.: GMT+1 h. - Pr.L.: Swedish. - Po.: 7.498.770. - Rcvsr.: 2.796.520. - E.C.: 110/127/220 V., A.C., 50 c/s; 220 V., D.C.

SVERIGES RADIO (Swedish Broadcasting Corporation) (Non comm. semigovt. broadcasting corporation). - FL.: By license payments. ADDR.: Radiohuset, Oxenstiernsgatan 2, Stockholm. Postal Addr.: Box 955, Stockholm 1. Cable: Broadcast. Te.: 631000. - L.P.: Chairman Board of Governors: Per Eckerberg. Dir. Gen.: Olof Rydbeck. Deputy Dir. & Dir. Adm.: Erik Mattsson. Dir.: Henrik Hahr. Dir. Tec.: Johan von Utfall. Dir. Prgr. Sound: Nils-Olof Franzén. Dir. Prgr. TV: Niels-Erik Baehrendtz. Dir. Staff: Nils Ragnå. Dir. Pub. Dept.: Manne Ginsburg. Music: Nils Castegren. Spoken Word: Sound: Karl-Erik Lundewall, TV: Mats Rehnberg. Drama: Sound: Palle Brunius, TV: Henrik Dyfverman. Variety: Sound: Tage Danielsson, TV: Per-Martin Hamberg. Head Overseas Prgr.: Roland Pålsson. Head Press & Inf.: Philip von Krusenstierna. Head External Rel.: Mrs. Karin Bergman. TV prgr. exchange: Mrs. Marianne Lamby.

KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of license fees. Addr.: Stockholm 16. Cable: Gentel. Te.: Trunk calls: 236060, local calls: 236040. - L.P.: Dir. Gen.: H. Sterky. Chief of Radio Div.: E. Esping. Chief of Broad. Sec.: K. Ekström.

STATIONS: Medium Waves:

Station	Prgr.	kc/s	kW	Station	Prgr.	kc/s	kW
Boden	2	1594	0.15	Mariestad	2	1394	0.15
Borås	1	1562	2	Motala	1	191	150
	2	1394	0.15	Norrköping	1	1562	1.5
Eskilstuna	1	1562	0.5	Piteå	2	1394	0.15
Falkenberg	1	1448	0.15	Porjus	1	1529	0.075
Falun	1	1223	100		2	1594	0.075
Gävle	1	1448	0.5	Stockholm	1	773	150
Göteborg	1	980	150		2	1394	0.25
	2	1394	0.25	Sundsvall	1	593	150
Halmstad	1	1562	2		2	1394	0.15
	2	1394	0.15	Säffle	1	1448	0.15
Hudisvall	1	1448	1.5		2	1594	0.15
	2	1394	0.15	Söderhamn	1	1562	0.06
Hälsingborg	1	1448	1.5		2	1394	0.15
Hörby	1	1178	100	Trollhättan	1	1448	2
Jönköping	1	1448	2		2	1594	0.15
	2	1594	0.2	Uddevalla	1	1562	0.5
Kalmar	1	1562	2		2	1394	0.15
Karlskrona	1	1448	1.5	Umeå	1	1448	2
Karlstad	1	1562	1.5		2	1594	0.15
	2	1394	0.15	Uppsala	1	1562	2
Kiruna	1	1562	0.5	Varberg	1	1562	2
	2	1394	0.15		2	1394	0.15
Kristinehamn	1	1448	0.15	Visby	1	1448	0.5
	2	1594	0.15	Vänersborg	2	1394	0.15
Ludvika	2	1394	0.15	Västervik	2	1394	0.15
Luleå	1	182	10	Västerås	1	1448	2
	2	1394	0.15	Örebro	1	1562	0.5
Malmberget	1	773	2	Örnsköldsvik	1	1562	1.5
	2	1394	0.15		2	1394	0.15
Malmö	1	1562	2	Östersund	1	719	150

Wired Broadc.: Prgr. 1: 164 kc/s 1829 m - Prgr. 2: 209 kc/s 1435 m.

Short Waves: Hörby I, II 100 kW. *Motala 12 kW.

kc/s	m	Prgr.	kc/s	m	Prgr.	kc/s	m	Prgr.
6065	49.46	1	*7270	41.27	2	11880	25.25	1

FM:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Arvidsjaur	1	89.4	15	Gällivara	1	90.0	15
	2	93.0	15		2	93.6	15
Boden	1	94.5	15	Gäddede	1	93.1	0.03
	2	99.4	15		2	95.0	0.03
Bollnäs	1	91.8	15	Gävle	1	93.9	15
	2	96.0	15		2	98.7	15
Borlänge	1	89.4	15	Göteborg	1	92.1	15
	2	93.0	15		2	96.3	15
Borås	1	88.5	3	Halmstad	1	91.2	15
	2	94.6	3		2	95.4	15
Bäckefors	1	92.7	60	Hälsingborg	1	92.8	3
	2	96.8	60		2	95.7	3
Emmaboda	1	89.4	15	Hörby	1	88.8	60
	2	93.0	15		2	92.4	60

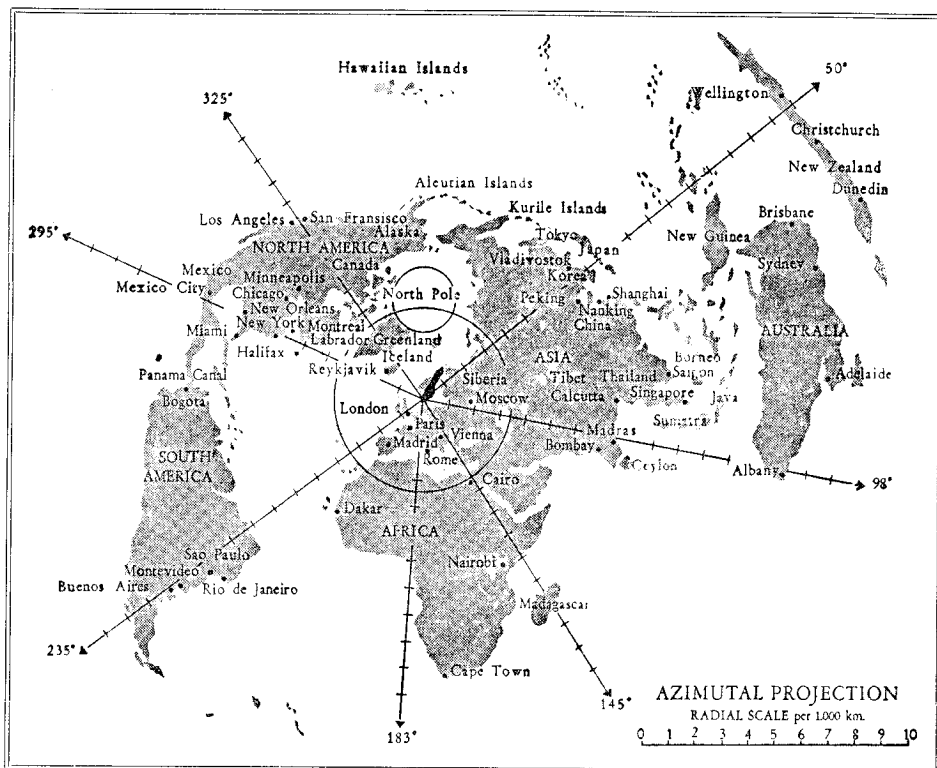
'THIS IS RADIO SWEDEN'

*calling the world
in six languages daily:*

**ENGLISH · FRENCH · GERMAN · SPANISH
PORTUGUESE · SWEDISH**

*and bringing News, Music and
Feature Programmes over
Radio Sweden's 100 kW transmitters.*

**The transcription service offers a wide range
of recorded programmes about Sweden.**



Sweden

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW	Times	Areas	L.	A	B	C
Lycksele	1	95.4	15	Täsjö	1	89.8	15	12.30-13.00	I	a	9620	15420	15420
	2	98.7	15		2	97.5	15	13.00-13.45	I	b	15155	17845	17230
Malmö	1	93.3	3	Uddevalla	1	89.1	3	14.00-14.30	II	a	17840	17840	17840
	2	98.7	3		2	93.1	3	14.45-15.15	III	a	15420	15420	15420
Mora	1	94.9	10	Uppsala	1	90.4	3	15.15-16.00	III	b	9605	17845	9605
	2	97.8	10		2	94.8	3	16.15-16.45	IV	a	11705	11705	11705
Norrköping	1	90.0	15	Varberg	1	87.6	3			f	15240	15240	15240
	2	93.5	15		2	93.6	3				11705	11705	11705
Nässjö	1	94.2	15	Visby	1	97.2	25	16.45-17.30	IV	b			
	2	99.0	15		2	99.5	25	17.45-18.15	V	a	11705	11705	11705
Skövde	1	95.1	15	Vännäs	1	88.5	60	18.15-19.00	V	b			
	2	97.5	15		2	92.1	60	19.15-19.45	V	c	11705	11705	11705
Sollefteå	1	93.3	15	Västervik	1	91.8	25	19.45-20.15	V	a	11705	11705	11705
	2	98.1	15		2	96.0	25	23.00-23.30	VI	e	9620	15240	9620
Stockholm	1	92.4	60	Västerås	1	95.7	15	23.30-00.30	VI	d			
	2	96.6	60		2	98.4	15	01.00-01.45	II	b	9725	11805	9725
Storuman	1	87.6	15	Örebro	1	87.9	60	01.45-02.15	II	a			
	2	91.2	15		2	91.5	60	01.00-01.45	VI	b			
Sundsvall	1	92.7	15	Örnsköldsvik	1	90.8	3	01.45-02.15	VI	e	11705	11705	11705
	2	96.9	15		2	94.4	3	02.15-02.45	VI	b			
Sunne	1	90.9	60	Östersund	1	87.9	60	02.45-03.15	VI	d	11705		
	2	94.5	60		2	91.5	60	02.30-03.15	VII	b	9725	11805	9725
Sveg	1	90.6	15					03.15-03.45	VII	a	9725	11805	9725
	2	94.2	15					04.00-04.30	VIII	d			

FM TR.'S UNDER CONSTRUCT.:

a) before the end of 1961:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Boden	1	94.5	60*	Göteborg	1	92.1	60*
	2	99.4	60*		2	96.3	60*
Gällivara	1	90.0	60*	Kiruna	1	89.1	60
	2	93.6	60*		2	92.7	60
Norrköping	1	90.0	60*	Nässjö	1	94.2	60*
	2	93.5	60*		2	99.0	60*
Sundsvall	1	92.7	60*	Storuman	1	87.6	60*
	2	96.9	60*		2	91.2	60*
				Sveg	1	90.6	60*
					2	94.2	60*
				Växjö	1	90.6	3
					2	94.7	3

b) before 1st July 1962:

*) power to be increased.

HOME SERVICE

FIRST PRGR.: Mo. Tues. Thurs. 04.55-23.00, Wed. Fri. 04.55-24.00 Sat. 05.00-24.00, Sun. 06.00-23.00.

Short Waves: 05.00-09.00 6065 kc/s, 09.00-12.15 9620 kc/s (4/3-4/11 62: 11880 kc/s).

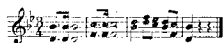
N.: D.: 07.00, 11.30, 14.00, 16.00, 17.30, 18.00, 21.00, Mo.-Fri.: 05.00, 06.00, 06.30, 20.30, W.: 05.30, Sat. 10.00. Wrp.: (incl. Forecast for Swedish Waters) D.: 07.00, 11.30, 18.00, 20.50. Forecast for Swedish Waters only: D. 16.00, W. 05.30, Rel. Prgrs.: Morning Sec.'s: W.: 05.20, 06.40, Sun.: Divine Sec.: 10.00.

SECOND PRGR.: D. 05.00-22.30 approx. - On 7270 kc/s: 05.00-22.30, On 6065 kc/s: 17.00-22.00.

ANN.: (Nat. Prgr.): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm". - INT.-SIG.: Home Service 1st Prgr.: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" and 2nd Prgr.: from Bellman's "Fredmans Epistel No. 64." "Fäll dine ögon skåms nu din tossa".

Home Service 1st Prgr.:

Home Service 2nd Prgr.:



FOREIGN SERVICE

Stations: Hörby - 100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
1178	254.7	9605	31.23	11805	25.41	15420	19.46
6065	49.46	9620	31.19	11880	25.25	17840	16.84
7210	41.61	9725	30.85	15155	19.80	17845	16.81
7230	41.49	11705	25.63	15240	19.69		

EUROPEAN SERVICE:

English: 22.00-22.30 6065 kc/s, 23.30-24.00 1178 kc/s.

French: 20.30-21.00 7210 kc/s, 21.45-22.15 11705 kc/s.

German: 21.30-22.00 6065 kc/s, 23.00-23.30 1178 kc/s.

Portuguese: 22.15-22.45 & Spanish: 21.15-21.45 11705 kc/s.

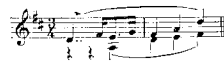
OVERSEAS SERVICE: I=Far East; II=Ea. No. Am.; III=So. Asia; IV=M. East; V=Africa; VI=So. Am.; VII=We. No. Am.; VIII=Mexico, C. Am. a)=English, b)=Swedish, c)=German, d)=Spanish, e)=Portuguese. A: 5/11-61 - 4/3-62; B: 4/3-2/9; C: 2/9-4/11.

Radio Sweden reserves the right to alter the schedule if necessary.

DX-PRGR.: "Sweden Calling DX'ers": In English: Every Mo./Tues. as last part of the English half hour at 12.30, 14.00, 14.45, 16.15, 17.45, 19.45, 20.30, 23.30, 01.45, 03.15. In German: Wed. In Portuguese: Wed. In Spanish: Once weekly.

ANN.: "This is Radio Sweden". - G.: "Hier ist der Schwedische Rundfunk, Stockholm". - Sp.: "Habla Estocolmo". - P.: "R. Suécia apresenta". - Sw.: "Sveriges Radio, Utlandsprogrammet".

INT.-SIG.: Foreign Service: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n".



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to Radio Sweden, Box 955, Stockholm 1.

PUB.: Monthly: "Radio Sweden" in six languages: English, German, French, Spanish, Portuguese, Swedish. Weekly: "Röster i Radio-TV".

IBRA RADIO AB (Non-Comm., Non-Go., Christian)

ADDR.: IBRA RADIO, Box 821, Stockholm 1. - Studios: The main studio is Sveavägen 34, Stockholm. Co-workers in Denmark, Finland, France, Germany, Gt. Britain, Holland, Italy, Japan, Norway, Portugal, USA. - Cable: "IBRA-RADIO". - L.P.: Pres.: Dr. Lewi Pethrus. Dir. Prgr.: H. Carlsson.

Stations	Radio	kc/s	m	kW	Time	Language
Bukava, Rep. Congo	OQE 15	4808	62.4	10	Sun. 16.45-17.00	French
Radio National Cochabamba, Bolivia		6160	48.79	1.1	D. 18.00-18.15	Spanish
R. La Cruz del Sur	CP38	9505	31.56	1	Thurs.	
La Paz, Bolivia	CP27	730	411	1	16.00-16.15	English
Radio WIVV		1370	219	1	Thurs.	
Vieques, Puerto Rico					00.30-00.45	English
R. Riquelme Coquimbo, Chile	CA96	960	312	1.3	Sun.	Spanish
R. Paraguay	ZPA10	6015	49.88	1	Wed.	
Asunción, Paraguay		1300	231	1.5	17.15-17.30	Spanish
R. Kanto Yokohama	JOKF	1450	207	3		
Japan	JORF	1380	203	10	Sun.	Japanese

The same Japanese prgr. is also broadcast over: R. Hokkaido, Hokkaido, Japan.

PUB.: "IBRA" in a Swedish and an English edition. Daily "DAGEN", Sweden's greatest Christian newspaper.

Advertisement:

IBRA RADIO FEDERATION is an international federation of listeners. Anybody can become a member of this federation. "IBRA", the magazine is mailed to each member. The membership fee is: Sw. Crowns 30., US\$ 10.- or Engl. £ 1. IBRA RADIO MISSION is an organ receiving gifts in favour of the Swedish free radiowork.

★ SWITZERLAND ★

L.T.: GMT+1 h. - Pr. L.: German dialects, French, Italian, Romanche. - Po.: 5.411.000. - Rvrs.: 1.467.008 (1/8/61). - E.C.: 220 V., A.C., 50 c/s.

SWISS BROADCASTING AND TELEVISION CORPORATION

(A non profit making Comp.). - FI.: By license fee.

ADDR.s: Schweizerische Radio- und Fernsehgesellschaft (SRG), Société Suisse de Radiodiffusion et Télévision (SSR), Società Svizzera di Radiotelevisione (SSR), Swiss Broadcasting and Television Corporation (SBC): Neunggass-Passage 2, Berne (from Spring 1962: Freudenberger Platz, Berne). Cable: Radif. Te.: (031)2.59.55. - Schweizerischer Kurzwellendienst, Services Suisse des Ondes Courtes, Swiss Shortwave Service: Neunggasse 23, Berne. Te.: (031)3.08.86. - Regional Centres: R. Zürich, Brunnenhofstr. 20, Zürich. R. Berne, Schwarztorst. 21, Berne. R. Basel, Novastr. Basel. - R. Lausanne, Maison de la Radio, La Sallaz, Lausanne. - R. Geneve, 66, Boulev. Carl Vogt, Genève. - R. Lugano, Campo Marzio, Lugano.

L.P.: Pres. of the Board of Adm.: Dr. H. Oprecht. Dir. Gen.: M. Bezençon. Head of Adm. and Deputy Dir. Gen.: D. Carl. Dir. Swiss Shortwave Sec.: Dr. G. H. Padel. Head of Spoken Word in Swiss Shortwave Sec.: Dr. H. de May. Dir. Swiss TV: E. Haas. - Managers of the Regional Centres: Beromünster: Studio Zürich: Dr. Samuel Bächli. Studio Berne: Dr. K. Schenker. Studio Basel: Dr. F. Ernst. Sottens: Studio Lausanne: J. P. Méroz. Studio Genève: Dr. R. Dovaz. Monte Ceneri: Studio Lugano: Dr. S. Molo.

HOME SERVICE

GERMAN:

First Prgr.: Sun. 06.45-22.15. Mo.-Fri.: 05.15-06.30, 10.00-13.30, 14.59-22.15. Sat. 05.15-22.15.

	kc/s	m	kW		kc/s	m	kW
Beromünster	529	567.1	150	Coire	1367	219.5	0.5
Basel	1367	219.5	0.5	Sool	1367	219.5	0.5

FM: Relay Beromünster:

	ch. mc/s		ch. mc/s		ch. mc/s
Valzeina I	41 99.3	Ladir I	30 96.0	Brig I	23 93.9
Sils I	29 95.7	Hornfluh I	30 96.0	Leuk	20 93.0
Niederhorn I	42 99.6	Davos	29 95.7	Attinghaus	13 90.9
St. Anton	43 99.9	Tarasp	27 95.1	Poschiavo I	4 88.2
Celerina I	43 99.9	Sool I	26 94.8	Gurtnehl I	30 96.0
Ernen	40 99.0	Geissholz I	29 95.7	Brusio I	2 87.6
Del Tiefenkastel I	ch. 27 95.1 mc/s				

Symphony: Tues. 19.00. - N., Wrp.: 05.15, 06.00 (Sun. 06.50), 11.30, 18.30, 21.15. - Commentary: 18.40 (18.00) Current N. - Items, non-political; Fri. 18.00: "World Chronicle"; Mo. 21.20: Review for Swiss Abroad. - Mbg.: Mo. 19.30.

Second Prgr.: D. 18.00-21.15. Sun. approx. 12.30-16.30, 18.40-21.15. - Local broadcasts in Romanche every third week: Sun. 08.15 (Sermon), Fri. 16.00-16.30 (Children's Hour), 19.00-19.30 (Current N. - Items).

FM:	ch. mc/s		ch. mc/s		ch. mc/s
Basel	40 99.0	Santis	28 95.4	Brig II	8 89.4
Uetliberg	35 97.5	Bantiger	27 95.1	Celerina II	2 87.9
Sool II	34 97.2	Ladir II	15 91.5	Sils II	23 93.9
Leuk II	36 97.8	Davos II	23 93.9	Tarasp II	15 91.5
Valzeina II	11 90.3	Hornfluh II	39 98.7	Ernen II	28 95.4
Geissholz II	4 88.2	Gurtnehl II	15 91.5	Niederh. II	34 97.2
Del Tiefenkastel II	ch. 38 98.4 mc/s				

FRENCH:

First Prgr.: Sun. 06.10-22.15. Mo.-Thurs.: 06.00-07.00, 10.00-13.00, 14.59-22.15. Fri. & Sat. 06.00-22.15.

Sottens 764 kc/s 392.6 m 150 kW. - Savière 1367 kc/s 219.5 m 0.5 kW. FM: Rel. Sottens: Loeche ch. 4 88.2 mc/s - Les Ordonns ch. 24 94.2 mc/s - Ravoire ch. 41 99.3 mc/s - Hornfluh ch. 15 91.5 mc/s.

Symphony: Wed. 19.30. Thurs. 20.30. - N., Wrp.: 06.15, 11.45, 18.15, 21.30. - Commentary: 18.00 micro-partout, after 17.00 Le micro dans la vie, 18.25 Le miroir du monde (Fri.: La situation internationale). - Sat. 08.00-10.00 "Route Libre" - Fri. 07.00-08.10 Université radio-phonique. - Mbg.: Wed. 19.00.

Second Prgr.: D. 18.00-21.30. Sun. 13.00-21.30.

FM: La Dole ch. 14 91.2 mc/s - Mont Cornu ch. 2 87.6 mc/s - Leuk-Feschel II ch. 11 90.3 mc/s - Les Ordonns II ch. 36 97.8 mc/s - Hornfluh ch. 3 87.9 mc/s - Ravoire ch. 29 95.7 mc/s.

ITALIAN:

First Prgr.: Sun. 07.00-22.00. Mo.-Fri.: 06.00-07.00, 10.00-13.00, 14.59-22.00. Sat.: 06.00-07.00, 10.00-22.00.

Monte Ceneri 557 kc/s 538.6 m 50 kW.

FM: Rel. Monte Ceneri: Monte Morello I ch. 31 96.3 mc/s - Monte San Salvatore I ch. 39 98.7 mc/s - Poschavio ch. 23 93.9 mc/s - Brusio ch. 15 91.5 mc/s - Grono I ch. 42 99.6 mc/s - Peccio I ch. 4 88.2 mc/s. Symphony: Thurs. 19.30. - N., Wrp.: 06.15 (Sun. 07.15), 11.30, 18.15, 21.30 - Comm.: 18.20. - Mbg.: Sun. 13.00.

Second Prgr.: W. 18.00-21.30. Sun. 19.00-21.30.

FM: Monte Ceneri II ch. 8 89.4 mc/s, Monte Morello II ch. 6 88.8 mc/s, Monte San Salvatore II ch. 20 93.0 mc/s - Peccio II ch. 23 93.9 mc/s, Grono II ch. 26 94.8 mc/s.

JOINTS PRGRS.: (Beromünster, Sottens, Monte Ceneri): Mo.-Sat. 10.00-11.00 (First Prgr.) and 18.00-19.00 (Second Prgr.).

ANN.: Beromünster: "Schweizerischer Landessender Beromünster". - Sottens: "Sottens - émetteur national suisse". - Monte Ceneri: "Radio della Svizzera italiana - Stazione nazionale di Monte Ceneri".

INT.-SIG.: Beromünster: Radio Basel: "Z'Basel a mym Rhy".



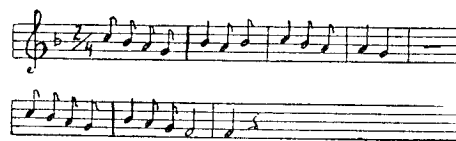
Radio Bern: "D'Zyt isch do".



Radio Zürich: "Chum Bueb und lueg dis Ländli a".



Radio Geneve: "Quelle fatale journée" chanson de l'Escalade.



Sottens: Radio Lausanne: "Voici la mi-été".



Monte Ceneri: "Campagne delle Chiesa di Pazzalino".

V.: Any messages from our listeners and viewers are most welcome. - F. PL.: A network of 63 FM tr. under construction (30 rel. national tr., 33 second prgr.). PUB.: Weekly: "Radio + Fernsehen" Schweizer Radio-Zeitung - "Radio TV - Je vois tout", "radiotivù". Prgr. sched. for Shortwave Sec. twice a year.

FOREIGN SERVICE

Schwarzenburg: 100 kW (output power).

HER3	6165 kc/s	48.66 m	HEU6	15315 kc/s	19.59 m
HEI3	7210	41.61	HEU7	17720	16.93
HER4	9535	31.46	HEU7	17785	16.87
HED5	9545	31.43	HEI8	17795	16.86
HEU3	9665	31.04	HER8	21520	13.84
HEI5	11715	25.61	HEI9	21605	13.89
HER5	11865	25.28			

Switzerland - U.S.S.R.

EUROPEAN SERVICE:

German, French, Italian on 6165/9535 kc/s: W. 05.45-06.40, 11.00-12.30, 15.00-22.45, Sat. 05.45-06.40, 11.00-22.45, Sun. 06.10-22.45. N.: German: 06.00 (W), 06.50 (Sun.), 11.30, 18.30, 22.00. French: 06.15, 11.45, 18.15, 21.30. Italian: 06.30 (W), 12.10, 22.30. - Esperanto: Mo., Wed. 12.20. Thurs., Sat. 21.15.

AFRICAN SERVICE:

English: D. 07.00-08.45 on 15305/11715/17795 kc/s, 14.45-16.30 on 21520 kc/s. - Portuguese: D. 06.40-07.00 on 15305/11715/17795 kc/s. German, French, Italian (rebroadcast of European Service): W. 05.45-06.40 on 15305/11715 kc/s. Sun. 06.10-06.40 on 15305/11715 kc/s. D. 11.00-12.30 on 21520 kc/s, 17.30-22.45 on 15305/11715 kc/s.

GENERAL OVERSEAS SERVICE:

English	Beamed Areas	kc/s
09.00-10.45	Au., N.Z., F. East	21520/15315/11865
12.45 14.30	S. E. Asia, Japan	21520/15315/9665
14.45-16.30	India, Pakistan	15315/11865/17795
16.45-18.30	Middle East	11865/9665
18.45-20.30	U. K. & Ireland	7210/9545
01.30-03.15	No. America I	6165/9535/11865
04.15-05.00	No. America II	6165/9535/11865

Prgrs. in all tr.s: Time-Sig., N. & Comm. at beg. of each tr. - Alpine Echoes: D. - Actuality prgr. "On the Spot": Mo. - "Close up", feature on Swiss life: Tues. - "Swiss Economic Scene": Wed. - Swiss Gazette: Thurs. - DX Corner: Fri. (07.30, 09.30, 13.15, 15.15, 17.15, 19.15, 22.00, 04.45). - Sunspot information: First Fri. of each month, 5 min. before DX Corner. - Youth Magazine: Sat. - Religious Talk: Sun. - Swiss Composers: Mo. - Concert: Fri. - Promenade Concert: Tues. - "Swiss Country Get-together": Sat. - Jazz: Wed. - Request prgr.: "Melody Train": Thurs., Sun. - SBC Mailbag or "Swissorama": Sun. - For the Swiss Abroad: French: Mo., Thurs.; Swiss-German: Tues., Fri. - Italian: Wed., Sat.

Arabic:

Fri. 17.30-18.00 on 9665/11865 kc/s. Prgr. prepared by the International Committee of the Red Cross in Geneva.

Spanish	Beamed Area	kc/s
21.05-22.35	Spain	9545/11865
23.20-00.50	So. America	15315/9535/11865
03.30-04.05	C. America	15315/9535/11865

Time-Sig., N. and Comm.: D. - Musical greetings ("Correo hispanico"), Swiss Composers ("Compositores suizos"): Mo. - Actuality ("Pinceladas de actualidad"): Tues., Thurs., Sat. - Listeners' questions ("Consultorio radiofonico") or Topical questions ("Temas de nuestro tiempo"): Tues. - Folk music ("Musica folklorica"): Tues., Sun. - Economic Review ("Apuntes economicos"): Wed. - Request prgr. ("Bailables"): Wed., Sat. - Swiss Gazette ("Ecos de Suiza"): Thurs. - Light music ("Cotel de ritmos"): Thurs. - Symphonic music ("Musica sinfonica"): Fri. - The week in review ("La semana en Suiza"): Sat. - Letters from Switzerland ("Cartas de Suiza"): Sun. - Features: Sun.

Portuguese:

20.45-21.05 (Sun. 21.35) to Portugal on 9545/11865 kc/s. 23.00-23.20 (Sun. 23.50) to Brazil on 9535/11865/15315 kc/s. N., Comm.: (Noticias e comentarios): D. - Folk Music (Musica popular): D. - Features (Coisas da Suica): Thurs. - Swiss Gazette (Ecos da Suica), Request prgr. ("Lembranças da Suica"): Sun. ANN.: E.: "This is Switzerland Calling". G.: "Hier spricht die Schweiz". F.: "Ici la Suisse". I.: "Qui è la Svizzera". Sp.: "Habla Suiza". P.: "Aqui Suiza".

INT.-SIG.: "Luegit vo Berg und Tal".



V.: We are happy to receive letters and reception reports, which are all replied to or acknowledged by QSL-card and letter. R.p. welcome if airmail is required. - PUB.: S.w. sched. twice a year (autumn, spring).

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

In Peace time: ICRC organizes occasional test transmissions (4 times a year) on the frequency of 7210 kc/s 41.61 m by courtesy of Swiss Short Wave Service. - In Times of Crisis: ICRC broadcasts programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day.

UNITED NATIONS BROADCASTING FROM GENEVA

FL.: by the UN Organization. - ADDR.: Radio des Nations Unies, Palais des Nations, Genève. Cable: Omnipress. Te.: 33.10.00, Ext. 2315/2566. - L.P.: Dir. Inf.: C. de Kemoularia. Chief Radio Operations: I. H. Berenson.

FOREIGN SCE.: 9545 kc/s 31.43 m 25 kW: 13.00-13.15 (Mo. only) Hungarian (to Hungary). 16.30-16.45 (Mo.-Fri.) Russian (to Ea. Eu.) On 6010/9575/11810 kc/s (via R. Roma): 19.20-19.35 (Mo.-Fri.) Arabic to No. Africa, M. East.

Scheduled magazine prgr.'s in French (Tour du Monde des Nations Unies) broadcast over Radio Geneva and some twenty other national networks in Asia, Africa and the Americas.

ANN.: E.: "This is the United Nations Radio in Genève". F.: "Ici les Nations Unies à Genève".

INT.-SIG.:



V. by QSL-card or letter. - PUB.: Prgr. sched. free on request.

★ U.S.S.R. ★

L.T.: See time table. - Pr.L.: Russian. - Po.: 216.000.000. - Rcvrs.: 60.000.000. - E.C.: 127/220 V., A.C., 50 c/s.

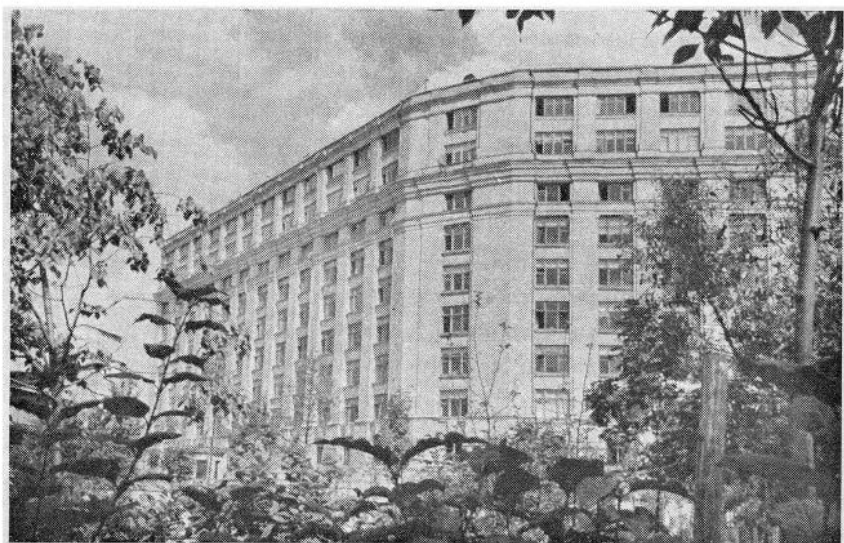
THE SOVIET RADIO (Go.)

ADDR.: Pjatsnitskaja ulitza 25, Moscow. - Cable: Moskva Radio L.P.: Pres. of the Broadc. Committee: S. V. Kaftanov, 1st Vice-Pres.: I. S. Tjernysjev, Vice-Pres.: V. I. Tjernysjev, Vice Pres. TV: K. S. Kuzakov, Chief Foreign Relations: V. M. Nikitin

STATIONS:

LONG & MEDIUM WAVES:

	kc/s	m	kW	H. of tr.
Moscow RSFSR	151	1987	500	See 1. prgr. R. Moscow
Petrovavlovsk-Kamchat-skiy RSFSR	155	1935		01.00-06.00, 08.00-11.00, 18.25-21.00
Tashkent, Uzbek	164	1829	50	00.00-10.45, 11.30-22.00
Moscow I RSFSR	173	1734	500	See 1. prgr.
Chita RSFSR	173	1734	20	22.05-16.20
Alma Ata	182	1648	10	00.30-09.00, 11.30-20.00
Tbilisi, Georgia	191	1571	35	02.00-09.20, 13.00-21.05
Irkutsk	200	1500	20	22.00-03.00, 04.00-19.00
Moscow II	200	1500	100	See 2. prgr. R. Moscow
Kiev I-Ukrainian SSR	209	1435	150	03.00-12.00, 13.00-22.00
Baku, Azerbaijan SSR	218	1376	35	01.55-11.00, 12.30-21.00
Krasnoyarsk RSFSR	218	1376	50	23.00-08.00, 09.00-18.00
Alma Ata	227	1322		
Leningrad I RSFSR	236	1271	100	See 1. prgr. R. Moscow
Magadan	236	1271		18.00-13.00
Vladivostok	245	1224	100	23.00-14.00
Stalinabad Tajik SSR	254	1181	2	23.52-10.00, 11.00-20.00
Kazan	254	1181		03.00-12.30
Yakutsk RSFSR	263	1141	10	22.00-01.55, 02.00-16.00
Moscow II RSFSR	263	1141	150	See 1. prgr. R. Moscow
Novosibirsk RSFSR	272	1103	100	23.00-07.00, 09.00-19.00
Minsk-Wh. Russian SSR	281	1068	100	03.00-12.00, 13.00-22.00
Ulan Ude RSFSR	281	1068	10	22.25-01.30, 03.30-16.30
Khabarovsk	335	896		19.30-10.45
Moscow II	340	882.4	100	See 2. prgr. R. Moscow
Yuzno-Sakhalinsk	360	833		19.25-21.45, 01.00-11.30
Moscow II RSFSR	365	820	20	See 2. prgr. R. Moscow
Ashkabad, Turkmen	375	800	10	00.55-11.20, 13.00-21.00
Moscow, II RSFSR	385	779	20	See 2. prgr. R. Moscow
Khar'kov	385	779	50	
Tashkent I	400	750	50	00.00-10.00, 11.40-20.45
Minsk Wh. Russian SSR	400	750	50	See 1. prgr. R. Moscow
Odessa, Ukrain SSR	548	547.4	100	See 3. prgr. R. Moscow
Moscow II	548	547.4	100	See 2. prgr. R. Moscow
Stalingrad RSFSR	557	539	10	03.00-16.00
Riga-Latvian SSR	575	521.7	100	02.58-12.00, 13.00-22.00
Ordzhonikidze	593	506		
Frunze, Kirghiz SSR	611	491	25	00.00-09.00, 10.58-20.00
Petrozavodsk, Kar. ASSR	611	491	100	03.00-10.00, 13.00-22.00
Krasnodar RSFSR	611	491	20	
Simferopol, Ukrain, SSR	647	463.7	100	03.00-12.00, 13.00-21.00
Murmansk, RSFSR	656	457.3	150	03.00-12.00, 13.00-22.00
Vilnius I-Lith. SSR	665	451.1	100	03.00-12.00, 13.00-22.00
Tjernovtsy Ukrain. SSR	674	445.1	50	
Ufa	692	433.5	100	
Moscow II RSFSR	692	433.5	20	See 2. prgr. R. Moscow
Stalino-Ukrainian SSR	710	422.5	100	03.00-11.00, 13.00-21.05



The Broadcasting House in Moscow

HERE IS MOSCOW!

Moscow Radio broadcasts to foreign listeners on short and medium waves in 40 foreign languages and in 8 tongues spoken by the nationalities in the Soviet Union.

In its broadcasts Moscow Radio tells of life in the Soviet Union and about the most important international events.

Moscow Radio's broadcasts comprise news, comment, conversations, interviews, surveys and special programmes for women, children and young people, scientific and technical programmes, sport, literature and music.

To the microphones of Moscow Radio come USSR's statesmen, prominent Soviet Russian scientists and cultural personalities, plus foreign guests - politicians and other public personalities, representatives of business circles, scientists, artists, workers, peasants and clergy.

Moscow Radio answers by radio and by post listeners' letters, transmits requests concerts, and conducts various competitions with prizes for the winners.

LISTEN TO MOSCOW RADIO'S BROADCASTS

**Broadcasting times and
wave lengths are given in this Handbook**

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FOREIGN SERVICE

I: R. MOSCOW^a
TO EUROPE

Bulgarian m.b.	
07.15-07.30	41 ¹ , 31 ² , 25, 19
17.30-18.00	337, 49, 41 ¹ , 31 ² , 25
Danish	
17.00-17.30	216, 49, 41, 31 ³
19.30-20.00	49, 41 ¹ , 31 ²
20.30-21.00	49, 41 ¹ , 31 ²
Dutch	
17.30-18.00	227, 216, 49, 41
19.00-19.30	49 ¹ , 41, 31 ² , 25
20.00-20.30	49, 41
English	
07.00-07.30	49, 41, 31, 25
13.15-13.45	31 ¹ , 19, 16, 13 ²
18.30-19.30	216, 49, 41 ¹ , 31 ²
20.00-21.00	216 (from 20.30), 49 ¹ , 41 ¹ , 31 ² , 25
21.30-22.00	216, 49 ¹ , 41 ¹ , 31, 25, 19
22.00-22.30	227, 216, 49 ¹ , 41 ¹ , 31 ² , 25
22.30-23.00	227, 216, 41, 31, 25
Finnish	
09.30-10.00	(Sun.) 375
17.15-18.30	375, 49, 41
19.00-19.45	375, 49, 41
French	
06.00-06.30	49, 41, 31, 25
11.30-12.30	25, 19, 16
18.00-18.30	49, 41 ¹ , 31
18.30-19.00	49 ¹ , 41, 31, 25
19.30-20.30	216, 49 ¹ , 41, 31 ² , 25
21.00-21.30	216, 49 ¹ , 41, 31 ² , 25
German	
06.30-06.45	49, 41, 31, 25
10.30-11.00	25, 19, 16, 13
12.45-13.15	31 ¹ , 25, 19, 16, 13 ²
16.00-17.00	227, 216, 49, 41
17.00-17.30	227, 49, 41
18.00-18.30	227, 216, 49, 41
18.30-19.00	227, 49, 41
19.30-20.00	227, 49, 41
20.30-22.00	227, 49, 41
German for Austria	
17.00-18.00	321, 41, 31
19.00-19.30	227, 41, 31, 25
21.30-22.00	321, 49, 41 ¹ , 31
Greek	
07.00-07.15	41, 31 ² , 25, 19
14.00-14.15	31 ¹ , 25, 19, 16 ¹ , 13 ²
16.30-17.00	337, 309, 41 ¹ , 25 ² , 19
17.30-18.00	49, 41, 31 ¹ , 25 ³
18.30-19.00	256, 49, 41, 31 ¹ , 25 ³
20.00-20.30	321, 256, 49, 41
21.00-21.30	309, 49, 41
Hungarian	
18.30-19.00	337, 49, 41, 31
20.30-21.00	337, 256, 49, 41, 31
Italian	
06.00-06.15	41 ¹ , 31, 25, 19
11.15-11.30	25, 19, 16
17.30-18.00	49, 41
18.00-18.30	49, 41, 31, 25
19.00-20.00	49, 41 (from 19.30) 31, 25 ²
20.00 20.30	337, 49, 41, 31, 25 ²
21.00-21.30	337, 49, 31, 25
Macedonian	
19.00-19.30	337, 49, 41, 31 ¹
Norwegian	
12.30-13.00	(Tues., Fri.) 457
16.30-17.15	49, 41
19.45-20.15	375, 49, 41
Polish	
17.30-18.00	256, 49, 41 ¹ , 31 ²
19.00-19.30	256, 49, 41 ¹ , 31 ²
21.00-21.30	375, 256, 49, 41 ¹ , 31 ²

Portuguese	
19.30-20.00	41, 31, 25
21.00-21.30	49, 41, 31, 25
Rumanian	
08.00-08.30	41 ¹ , 31 ² , 25, 19
17.00-17.30	337, 256, 49, 41, 31 ²
Serbo Croatian	
05.00-05.15	41 ¹ , 31, 25
11.00-11.15	25, 19, 16
13.45-14.00	31 ¹ , 19, 16 ² , 13 ²
18.30-19.00	321, 49, 41 ¹ , 31 ² , 25
19.30-20.00	321, 256, 49, 41 ¹ , 31 ²
20.30-21.15	321, 300, 49, 41, 31
21.30-22.00	337, 309, 300, 256, 49, 41
Slovenian	
18.00-18.30	337, 321, 49, 41 ¹ , 31 ² , 25
21.15-21.30	321, 300, 49, 41, 31
Spanish	
12.30-12.45	25, 19, 16
18.00-18.30	41, 31 ² , 25
20.00-21.00	41, 31, 25
21.30-22.30	49, 31, 25 ³
Swedish	
18.30-19.00	375, 49, 41
20.15-21.00	375, 49, 41
Concert	
22.00-23.00	337, 321, 300, 49, 31, 25 ³
TO NEAR & MIDDLE EAST	
Arabic m.b.	
04.30-05.00	41, 31, 25, 19
13.00-13.30	25, 19, 13
17.00-17.30	309, 49, 41, 31
17.30-18.00	347, 309, 60, 49, 41, 31, 19 ²
18.00-19.00	309, 41, 31
19.00-20.30	309, 60, 49, 41, 31, 25 ³
20.30-21.00	309, 60, 49, 41, 31 ¹ , 25
Persian	
09.30-10.00	19, 16
11.00-11.30	19, 16
12.30-12.55	19, 13
14.45-15.30	347, 60, 49, 41, 31, 19
16.30-17.30	347, 60, 49, 41, 31, 19 ²
18.30-19.00	347, 60, 49, 41
Pushtu (to Afghanistan)	
15.00-15.30	25, 19, 16
16.30-17.30	25, 19, 16
Turkish	
10.00-10.30	19, 16
13.30-14.00	25, 19, 13
14.45-15.00	31 ¹ , 25, 19, 16 ² , 13 ²
15.30-16.30	309, 60, 49, 41, 31, 19 ²
18.00-18.30	347, 256, 60, 49, 41
19.30-20.00	337, 49, 41, 31
TO AFRICA	
English m.b.	
12.00-12.30	19, 16, 13
14.30-15.00	19, 16
17.00-17.30	41 ¹ , 31 ² , 25, 19, 16
18.00-18.30	41, 31, 25 ³ , 19
20.00-20.30	49, 31, 25
21.00-21.30	41, 31, 25, 19
French	
11.30-12.00	25, 19, 16
15.30-16.00	31, 25, 19, 16
17.00-17.30	49, 31 ¹ , 25, 19, 16
19.30-20.00	31, 25, 19, 16
20.30-21.00	49, 31, 25, 19, 16
21.30-22.00	49, 31, 25

Amharic m.b.	
16.30-17.00	41, 31, 25, 19, 16
18.00-18.30	31 ¹ , 25, 19, 16
Italian	
10.30-11.00	19, 16
Portuguese	
17.30-18.00	25, 19, 16
19.00-19.30	31, 25, 19, 16
20.00-20.30	31, 25, 19, 16
Swahili	
15.00-15.30	25, 19, 16
16.00-16.30	31, 25 ² , 19, 16
17.30-18.00	41, 31, 25 ² , 19
TO SOUTH EAST ASIA	
English m.b.	
07.30-08.00	25, 19, 16, 13
11.00-11.30	238, 49, 31
10.30-11.00	238, 49, 31
13.30-14.00	25, 19, 16, 13
15.00-15.45	25, 19, 16, 13
Bengali	
08.30-09.15	25, 19, 16, 13
11.00-11.45	31, 19, 16, 13
13.30-14.30	31, 25, 19, 16, 13
Burmese	
10.30-11.00	25, 19, 16, 13
12.30-13.00	25 ¹ , 19, 16 ² , 13 ²
15.00-15.30	25 ¹ , 19, 16 ² , 13 ²
Indonesian	
08.00-08.30	25, 19, 16, 13
10.30-11.00	25, 19, 16, 13
11.45-12.30	25, 19, 16 ² , 13 ²
13.30-14.00	25, 19, 16 ² , 13 ²
Hindi	
10.30-11.00	31, 19, 16, 13
12.30-13.00	31, 25, 19, 16, 13
14.30-15.00	31, 25, 19, 16, 13
15.45-16.30	25, 19, 16
Tamil	
13.00-13.30	31, 25, 19, 16, 13
Urdu	
09.15-10.00	25, 19, 16, 13
11.45-12.30	31, 19, 16, 13
14.00-15.00	25, 19, 16, 13
Vietnamese	
08.30-09.00	31, 25, 19, 16, 13
13.00-13.30	25, 19, 16, 13
14.30-15.00	25, 19, 16 ² , 13 ²
TO FAR EAST	
Chinese m.b.	
09.30-10.00	547, 477, 238, 31, 25
II) R. TALLIN: Estonian: 21.30-22.30 (Tues., Thurs., Sat.) on 290 m and 49 m.b. - Finnish: 08.00-09.30 (Sun.) on 290 m; 15.00-15.30 (exc. Sun.) on 422 m, 16.00-16.30 (exc. Sun.) on 290 m - Swedish: 21.30-22.00 (Mo., Wed., Fri., Sun.) on 290 m and 49 m.b.	
III) R. VILNIUS: Lithuanian: 22.00-22.30 in 49, 41, 31 ² , 25 m.b., 22.30-23.00 in 49, 41 ¹ , 31, 25 m.b.	
IV) R. ERIVAN: Arabic: 14.00-14.40 on 347 m and 41 m.b. 19.00-19.30 on 347 m and 41 m.b. - Armenian: 15.30-16.25 & 19.30-21.05 on 347 m and in 41 m.b. - Kurdish: 11.50-12.50 & 13.30-14.00 on 347 m and in 41 m.b.	
V) R. TASHKENT in 31, 25 m.b.: English: 12.00-12.30, 14.00-14.30. - Persian: 15.45-16.15, 17.30-18.00 - Urdu: 12.30-13.00 & 15.00-15.30. ADDR.: Ul. Choresmskaja 49, Tashkent. ANN.: E. "This is R. Tashkent Calling". Reported frequencies 9600, 11925 kc/s.	
VI) R. RIGA on 522 m: Latvian: 20.00-20.45 (Sun.) - Swedish: 20.20-20.50 & 21.30-22.00 (Tues., Thurs., Sat.).	
VII) R. KIEV in Ukrainian: 16.00-17.00 in 49, 41 m.b.; 19.00-20.00 in 49 m.b.; 01.30-03.30 in 41, 31 m.b.; 04.00-05.30 in 41 m.b.	
VIII) R. BAKU in 31 m.b.: Arabic: 16.00-17.00 - Azerbaijani: 04.00-04.15, 13.30-14.15 - Persian: 04.30-04.45, 12.00-13.00, 15.00-15.30 - Turkish: 11.00-11.45, 17.15-18.15.	
IX) R. STALINABAD in 41, 31 m.b.: Persian: 13.00-14.00 - Tadjik: 12.00-13.00 & 14.00-15.00.	

¹) December-February only. ²) not December-February. ³) from 1/3. "DX-Club" (for R. Amateurs) is broadcast to No. America Mo. at 00.50 and 03.50 (repeat).

Vatican State - Yugoslavia

★ VATICAN STATE ★

L.T.: GMT+1 h. - E.C.: 125/220 V., A.C., 50 c/s.

VATICAN RADIO (Rel.)

ADDR.: Vatican Radio, Vatican City. Cable: Vatican Radio. Te.: 698.
L.P.: Dir. Gen.: Rev. Prof. Antonio Stefanizzi, S. J. Dir. Prgr.: Rev.
F. Ramirez S. J. Dir. Tec.: Dott. Ing. Tullio Gorio.

STATIONS: Medium Waves:

HV2 782 kc/s 383.6 m 2 kW - HV100 1529 kc/s 196.2 m 100 kW
Short Waves: 25/50/100 kW.

kc/s	m	kc/s	m	kc/s	m
6030	49.75	9645	31.10	15190	19.76
6190	48.47	9660	31.06	17840	16.82
7235	41.47	11740	25.55	17860	16.80
7250	41.38	11940	25.13	21490	13.96
7270	41.27	15120	19.84	21500	13.95

The wavelengths are subject to change with seasonal variations, or to avoid interference.

FM: 93.30, 96.30 mc/s 0.5 kW.

PROGRAM SCHEDULE:

Abyssinian:	16.30 Mo., Wed., Fri.	15120, 17840, 21515, 1529
Albanian:	20.30 Tues. Thurs. Sat.	6190, 1529
Arabic:	16.45 D.	11740, 15120, 17840, 1529
Bulgarian:	17.30 Tues. Thurs.	6190, 7250, 9645, 1529
	11.10 Sun.	9645, 11740, 15120, 1529
Chinese:	22.30 Tues. Thurs. Sat.	9645, 11740
Croat:	17.45 Sun. Mo. Tues.	
	Wed. Fri.	6190, 7250, 1529
Czech:	12.30 D.	9645, 11740, 15120, 1529
	19.30 D.	6190, 7250, 9645, 1529
Dutch:	21.15 Sun. Mo. Wed. Fri.	6190, 7250, 9645, 1529
English:	15.00, 18.15 D.	9645, 11740, 15120, 1529
	16.00 Mo. Wed. Sat. 11740,	17840 (Ind. Pak. Ceylon)
	10.00 D.	17840, 21490 (Ea. Africa)
	10.20 D.	17840, 21490 (C. & So. Africa)
	22.30 Mo. Wed. Fri.	9665, 11740 (Philippines)
Estonian:	15.45 Sun.	9645, 11740, 15120
French:	11.45, 14.30 D.	9645, 11740, 15120, 1529
	19.15 D.	6190, 7250, 9645, 1529
	10.50 D.	17840, 21490 (Equ. Africa, Congo)
	11.10 D.	17840, 21490 (We. Africa)
German:	12.45, 14.45 D.	9645, 11740, 1512, 01529
	19.45 D.	6190, 7250, 9645, 1529
Hungarian:	13.00 D.	9645, 11740, 15120, 1529
	21.00 D.	6190, 7250, 9645, 1529
Italian:	13.30 D.	6190, 7250, 9645, 11740, 1529
	18.30 D.	6190, 7250, 9645, 11740, 1529
	16.00 Fri.	6190, 7250, 9645, 1529
	21.30 D.	1529
Japanese:	21.45 Mo. Wed. Fri.	9645, 11740
Latin:	11.30, 16.30 Tues. Thurs.	
	Sat.	7250, 9645, 11740, 15120, 1529
	21.15 Tues. Thurs. Sat.	6190, 7250, 9645, 1529
	20.00 D. (H. Rosary)	6190, 7250, 9645, 1529
Latvian:	17.30 Mo. Fri.	9645, 11740, 15120, 1529
Lithuanian:	07.30 Sun.	9645, 11740, 15120
	17.15 D.	7250, 9645, 11740, 1529
Polish:	12.15, 15.15 D.	9645, 11740, 15120, 1529
	19.00 D.	6190, 7250, 9645, 1529
Portuguese:	15.30 D.	9645, 11740, 15120, 1529
	20.30 D.	7235, 9740, 11740
	10.35 D.	17840, 21490 (Angola-Moz.)
	23.00 D.	11740, 17860 (Brazil)
Rumanian:	17.30 Sun. Wed. Sat.	6190, 7250, 9645, 1529
Russian:	14.00, 18.00 D.	9645, 11740, 15120, 1529
Slovak:	12.00 D.	9645, 11740, 15120, 1529
	20.15 D.	6190, 7250, 9645, 1529
Slovene:	17.45 Thurs. Sat.	6190, 7250, 1529
	20.30 Mo. Fri.	6190, 7250, 1529
	10.45 Sun.	9645, 11740, 1529
Spanish:	14.15 D.	9645, 11740, 15120, 1529
	20.45 D.	7250, 9645, 1529
	23.30 D.	11740, 17860 (So. Am.)
	00.00 D.	9645, 11740 (C. Am.)
	00.30 D.	9645, 11740 (N. Am.)
Swahili:	16.15 D.	17840, 21515 (Ea. Africa)
Swedish, Danish, Norwegian:	20.30 Wed. Sun.	7250, 9645, 1529
Ukrainian:	17.00 Sun. Tues. Thurs.	7250, 9645, 11740, 1529
	Fri.	7250, 9645, 11740, 1529
White Ruth:	17.00 Mo. Wed. Sat.	7250, 9645, 11740, 1529
Musical Concert:	16.00 Thurs.	7250, 9645, 11740, 1529

Sun.: 08.30 Mass in Latin Rite
Music during the Mass. } 7250, 9645, 11740, 15120
Gospel homily for 15 min.

Oriental Liturgy: 09.30 (Homily
in respective languages) 9645, 11740, 15120, 1529

OPENING SIGN: The bells of St. Peter's.

ANN.: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".

INT.-SIG.: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment. - V. by QSL-card.



V. by QSL-card or letter. - PUB.: Prgr.sched. free on request.

★ YUGOSLAVIA ★

L.T.: GMT+1 h. - Pr.L.: Serbo-Croat: Beograd I, Beograd II, Nis, Novi Sad I, Novi Sad II, Pristina, Zagreb, Sljeme, Split, Rijeka, Osijek, Dubrovnik, Sarajevo, Titograd, Tuzla; Slovenian: Ljubljana I, Ljubljana II, Maribor, Koper, Celje, Mursko Sobota; Macedonian: Skopje, Bitola. - Po.: 18.512.000. - Rcvrs.: 1.563.213. - E.C.: 220 V., A.C., 50 c/s.

RADIOTELEVISION YUGOSLAVE (Go.)

FI.: By licence payments. - AD.: Beograd: 60 min., Zagreb: 85 min., Ljubljana: 65 min., Sarajevo: 65 min., Skopje: 135 min., Titograd: 30 min., Novi Sad: 70 min., Pristina: 30 min. per day.

ADDR.: 70 Borisa Kidrica, Beograd. Cable: Jugoslovenska radio-televizija Beograd. Te.: 43-677.

L.P.: Radiotelevision Yougoslave: Pres. Adm. Committee: D. Popović. Vice-pres.: Mrs. V. Malinska. Vice-pres.: D. Seliger. Secr. Gen.: Dr. I. Pustić. Head For. Rel.: Mrs. O. Vojvodić. Pres. Prgr. Com.: M. Bulatović. D. Seliger. Pres. Jur. Com.: D. Vučković. Pres. Tec. Com.: Eng. S. Rojec. Pres. Tec. Com. for TV: D. Strbac. - Radiotelevision Beograd: Dir. Gen.: D. Popović. Dir. Prgr.: V. Pešić. - Radiotelevision Zagreb: Dir. Gen.: I. Šibl. Dir. Prgr.: D. Strbac. - Radiotelevision Ljubljana: Dir. Gen.: D. Seliger. Dir. Prgr.: Dr. E. Tomc. - Radio Skopje: Dir. Mrs. V. Malinska. - Radio Sarajevo: Dir. Mrs. D. Kurtović. - Radio Titograd: Dir. M. Brailo. - Radio Novi Sad: Dir. M. Olajoš. - Radio Pristina: Dir. I. Mulja.

STATIONS

MEDIUM WAVES:

Main stations	kc/s	m	kW		kc/s	m	kW
Sarajevo	611	490.0	100	Ljubljana I	917	327.1	135
Beograd	683	439.2	150	Zagreb	1133	264.7	135
Skopje	809	370.8	135	Novi Sad	1268	236.6	100
Titograd	881	340.5	20	Pristina	1412	212.4	20

Local stations

	kc/s	m	kW		kc/s	m	kW
Nis	926	324.0	10	Beograd II	1484	202.2	2
Rijeka I	1133	264.7	15	Ljubljana II	1484	202.2	2
Split	1133	264.7	50	Sljeme	1484	202.2	2
Maribor	1412	212.4	5	Osijek	1484	202.2	2
Koper	1169	256.6	6	Rijeka II	1484	202.2	2
Bitola	1484	202.2	0.5	Novi Sad II	1484	202.2	2
Celje	1484	202.2	0.5	Murska Sobota	1484	202.2	2
Dubrovnik	1484	202.2	0.5	Tuzla	1484	202.2	2

SHORT WAVES:

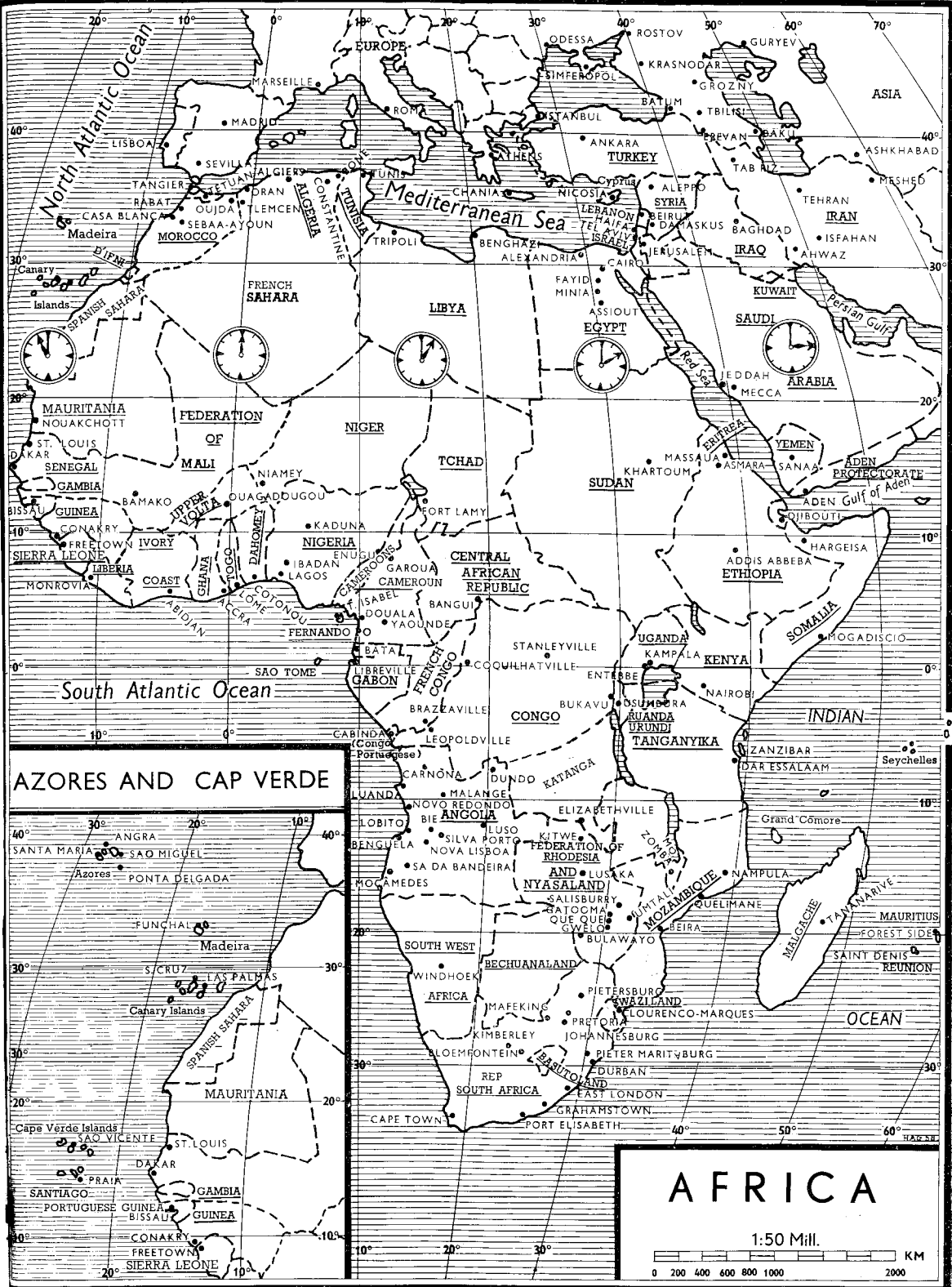
Beograd 10/10/50/100 kW							
kc/s	m	kc/s	m	kc/s	m	kc/s	m
6100	49.18	7200	41.67	9505	31.56	11735	25.56
6150	48.78	7240	41.44	9620	31.18	15240	19.69

FM

	mc/s	kW		mc/s	kW
Fr. Gora	94.5	48	Nanos	92.9	0.35
Jastrebac	89.3	4	Novi Sad I	90.5	48
Hum	91.3	0.35	Novi Sad II	87.7	3.75
Koper	97.7	0.35	Pohorje	88.5	0.35
Kum	90.1	1.5	Psunj	98.9	2.5
Ljubljana	94.1	1.5	Sarajevo	95.7	2.5
Lovcen	94.9	0.35	Nis		

HOME SERVICE

R. Beograd: W. 03.00-23.05 (Sat. 24.00). Sun. 04.00-23.05. N. Comm.: 03.03, 04.00, 05.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.30, 20.00, 21.00, 23.00. - Wrp.: 06.30, 09.00, 14.00, 21.00.



Yugoslavia – Algeria

R. Zagreb: W. 04.00–23.05 (Sat. 24.00). Sun. 05.00–23.05. Comm.: 04.00, 05.00, 06.00, 07.00, 08.30, 10.00, 12.00, 14.00, 16.00, 18.30, 20.00, 21.00, 23.00. – Wrp.: 05.05, 06.05, 08.35, 12.05, 14.05, 21.00.
R. Ljubljana: W. 04.00–23.05. Sun. 05.00–23.05. – N.Comm.: 04.05, 05.00, 06.00, 07.00, 09.00, 12.00, 14.00, 16.00, 18.30, 21.00, 22.00, 23.00. – Wrp.: 04.05, 05.00, 06.00, 12.00, 18.30, 21.00.
R. Skopje: D. 03.55–23.10.
R. Sarajevo: W. 04.00–07.30, 11.00–23.00. Sun. 04.00–23.00.
T. Titograd: W. 04.00–07.00, 13.00–22.05, Sun. 05.00–22.05.
R. Novi Sad: D. 04.00–23.15.
R. Pristina: W. 04.30–07.05, 11.00–22.00. Sun. 05.00–22.00.

FOREIGN SERVICE

Albanian	kc/s	French
14.00–14.30	6100, 9505, 11735,	16.30–16.45 6100, 11735, 9505
18.30–19.00	881, 9505	19.30–19.45 6100, 7100, 9505
Arabic		22.15–22.30 1268, 6100, 7100, 9505
15.00–15.15	6100, 9505, 11735	
17.30–18.00	6100, 7100	German
19.45–20.00	6100, 9505, 7100	17.30–18.00 9505
Bulgarian		20.45–21.00 6100, 7100, 9505
14.00–14.30	926	Polish
18.00–18.30	6100, 7100, 9505	16.00–16.30 6100, 11735, 9505
09.00–10.00	926	20.30–20.45 6100, 7100, 9505
Czech		Russian
16.45–17.00	6100, 7100, 9505	04.30–04.45 1268, 6100, 11735, 9505
20.00–20.30	6100, 7100, 9505	14.30–14.45 6100, 11735, 9505
21.30–21.45	1268	17.00–17.20 6100, 7100, 9505
English		19.00–19.30 6100, 7100, 9505
15.30–16.00	9505, 11735, 15240	Spanish
18.30–19.00	6100, 7100	00.00–00.30 11735, 7100, 9505
22.00–22.15	1268, 6100, 7100, 9505	01.00–01.30 11735, 7100, 9505
		21.30–22.00 6100, 7100, 9505

ADDR.: Radiotelevision Beograd, Chief Editor of External Broadcasting: Josip Defrancčeski.

ANN.: Home Service: "Here is Radiotelevision Beograd, ... Zagreb, ... Ljubljana etc." – "Ovde Radiotelevizija Beograd, ... Zagreb, ... Ljubljana etc." – Foreign Service: "This is Yugoslavia, Radio Belgrade calling" – "Ici la Yougoslavie, Belgrade vous parle".

INT.-SIG.: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade). – V. by QSL-card.



AFRICA



★ ALGERIA (French) ★

L.T.: GMT+1 h. – Pr.L.: French, Arabic, Kabyl. – Po.: 9.800.000. – Rvrs.: 617.000. – E.C.: 110 V., A.C., 50 c/s.

FRANCE V (Go.)

ADDR.: Direction Regionale Algerie, Radiodiff. Télévision Française, 21, Boulevard Bru, Alger. Cable: RTF. Te.: 66.15.90. – L.P.: Dir. Gen.: Oudinot. Dir. Tec.: Godin.

FRENCH NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger II	980	306.1	200	Bone(fr.17.00)	1484	202.2	0.2
Constantine	1142	262.7	20	Bougie(fr.19.30)	1594	188.2	0.6
Oran I	1142	262.7	40	Alger OCI	11835	25.35	50
W. 05.30–08.30, 10.00–13.30, 15.00–22.15. Sun. 06.00–22.15.							
Relays from Paris: Alger II 980 kc/s; 23.00–05.15 relay Paris Inter.							
N.: 06.30, 12.00, 19.15, 21.45. – Wrp.: 11.58, 19.13.							

ARABIC NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger I	890	337.1	200	Constantine II	1304	230	20
Oran II	1304	230.0	40	Alger OC2	9685	30.98	50

KABYL NETWORK:

	kc/s	m	kW		kc/s	m	kW
Alger III	1421	211	40	Bougie (even.)	1594	188	0.6
Michelet(even.)	1570	191.0	5	Alger OC3	6160	48.70	50

RELAY FROM PARIS: Alger OC4 7170 kc/s 41.84 m 50 kW:

19.00–23.00 in Arabic and Kabyl.

SAHARA NETWORK (relays French & Arabic Netw. and local prgr.s):

Colomb-Bechar	548 kc/s	547.5 m	20 kW	05.30–08.00, 11.00–14.00,
Laghout	557	539.0	4	16.00–23.00
Touggourt	575	522.0	4	

SUPPLEMENTARY NETWORK (relays French, Arabic netw. and local prgr.s): 11.00–13.15, 17.00–23.00.

	kc/s	m	kW		kc/s	m	kW
Bouira	692	434	1	Relizane and			
Tlemcen	746	402	1	Tebessa	926	324	0.05
Setif	854	351	0.05	Batna	1016	295	0.05
Biskra	908	330	0.05	Souk Ahras	1079	278	1
				Tizi Ouzou	1570	191	

ANN.: F.: "Ici France V qui vous parle sur les ondes d'Alger 306 m Oran et Constantine 262 m".

INT.-SIG.: Fragments of one of the "escaliers" of Jacques Ibert and of "Marouf, Sadetier du Cairo" of O'Henri Rabaud.

V. by QSL-card. – PUB.: Monthly "Ici Alger".



★ ANGOLA (Portuguese West Africa) ★

L.T.: GMT+1 h. – Pr.L.: Portuguese. – Po.: 4.362.264. – Rvrs.: 53.133. – E.C.: 220 V., A.C., 50 c/s.

EMISSORA OFICIAL DE ANGOLA (Go.)

FI.: By State. – ADDR.: C.P. 1321, Luanda. Te.: 2192. – L.P.: Dir. Gen.: Eng. F. de Carvalho. Dir. Prgr.: H. de Mergulhão. Dir. Adm.: Dr. A. Diogo Júnior. Dir. Tec.: J. C. Proença.

HOME SERVICE: CR6RZ

1350 kc/s	222.2 m	1/3 kW	—	9765 kc/s	30.72 m	1 kW
4995	—	60.06	—	3	—	17795
6025	—	50.00	—	10	—	16.86

W.: 06.00–07.30 on 1350/4995 kc/s, 07.30–09.00 on 1350 kc/s, 11.00–13.30 on 1350/4995/9765 kc/s, 13.30–14.00 on 1350 kc/s, 18.00–21.00 on 1350/4995/6025 kc/s, 21.00–23.00 on 1350/4995/6025/17795 kc/s. Sun.: 08.00–11.00 on 1350 kc/s, 11.00–17.00 on 1350/4995/9765 kc/s, 18.00–21.00 on 1350/4995/6025 kc/s, 21.00–23.00 on 1350/4995/6025/17795 kc/s.

N., Comm., Wrp.: 06.15, 12.00, 19.00, 22.45. – Actualities from Angola and Metropolitan Portugal: Sun. 12.00, D. 19.15. – Tourist Prgr.s: Mo. 21.30, Wed. 21.30, Sun. 10.00. – French: D. 11.30–12.00 on 9765 kc/s.

ANN.: "Aqui Portugal, Emissora Oficial da Provincia de Angola, em Luanda". – V. by QSL-card.

INT.-SIG.:



RADIO CLUBE DE ANGOLA (Comm.)

ADDR.: C.P. 229, Luanda. Cable: Radangola. Te.: 3448. – L.P.: Pres.: Com. M. de Albuquerque e Castro. Dir. Prgr.: A. M. da Costa. Production Mgr.: A. G. dos Santos e Sousa. Dir. Tec.: Eng. A. Palmeiro. Dir. Adm.: J. Teles.

HOME SCE, in Portuguese: Call: CR6---

RN 4869 kc/s	61.60 m	1 kW	W. 06.00–08.00, 11.00–13.30,
RA 7142	– 42.01 – 0.5 –		16.30–21.30. Sun. 09.00–13.30,
RL 9632	– 31.15 – 1 –		16.30–21.30. Holidays 09.00–21.30
N.: 06.20, 12.00, 17.20, 17.50, 19.20, 21.20. – Mbg.: Sun. 11.00. – Wrp.: D. 12.10, 17.30. – Request Prgr.: W. 13.00, 17.35. Sun. 09.00, 19.35.			

A NN.: "Aqui Angola, Província Portuguesa de Africa, de Luanda, Transmite Radio Clube de Angola, a vossa estação ...". - V. by QSL card and by radio (Sun. 11.00).
PUB.: Weekly sched. on request.

INT.-SIG.:



Bechuanaland - Comores Islands

★ BECHUANALAND (British Protectorate) ★

L.T.: GMT+2 h. - Pr.L.: English. - Po.: 336.000. - Revrs.: 2500.

RADIO STATION ZNB (Go.)

ADDR.: ZNB Broadc. St., Box 252, Mafeking.

L.P.: St. Dir.: W. Coombes. Technicians: P. Nel & K. Crawford.

D.PRGR.: ZNB 5900 kc/s 50.84 m 1 kW: W. 11.00-12.00, 17.00-19.30. Sun. 18.00-19.30. - N.: 11.15, 17.15 (relay SABC).

ANN.: "This is ZNB at Mafeking". - V. by letter. Rp.

★ CAMEROON (Republic) ★

L.T.: GMT+1 h. - Pr.L.: French, Vernaculars. - Po.: 3.500.000. - Revrs.: 100.000.

RADIO YAOUNDE (R. Cameroon I) (Go.)

ADDR.: B. P. 281, Yaounde. Cable: Radiodiffusion. Te.: 3719. - L.P.: Dir. Cameroon Broadc.: M. A. Moutongo Black.

HOME SERVICE: Mo.-Fr. 05.15-07.30, 11.15-13.00, 16.30-21.00. Sat. 05.15-07.30, 11.15-22.00. Sun. 05.15-22.00.

1286 kc/s 233 m 1 kW: as above
4972.5 - 60.33 - 4 - : 05.30-07.30, 16.30-21.30 (Sun. 17.00-22.00)

7205 - 41.64 - 4 - : 07.30-16.30.

N.: W.: 06.00, 06.30, 11.45 (Sat. 12.15), 17.00, 18.00, 18.30, 20.55 (Sat. 21.55). Sun.: 06.30, 07.55, 12.15, 17.00, 18.00, 18.30, 21.55 - Folklore Music: Mo. 18.05, Thurs. 17.05, Fri. 06.05, Sat. 11.15.

ANN.: "Ici Yaounde, Poste Nationale de Radiodiffusion du Cameroun". - INT.-SIG.: Local music or Tam-Tam rhythm.

V. by QSL-card or letter. Rp. Re. in E, F, Prgr. sched. free on request.

RADIO DOUALA (R. Cameroon II) (Go.)

ADDR.: B. P. 986, Douala. Cable: Radio Douala. Te.: 4575. - L.P.: Dir.: F. Moussou-Priso.

HOME SERVICE in French, Douala, Bassa, Bamileké
1448 kc/s 207.2 m 1 kW: W. 05.30-07.30, 11.15-12.30, 17.00 (Sat. 6.15 - 49.06 - 1 - : 15.00)-21.00. Sun. 07.00-21.00.

N. in French (rel. Yaounde): 06.30 (W), 11.45 (Mo.-Fri.), 12.15 (Sat., Sun.), 18.30 (local N.): W. 06.00, 12.00 (Mo.-Fri.), 19.00. Sun. 08.20, 11.00, 19.00.

ANN.: F.: "Ici Doula, Radiodiffusion du Cameroun". - INT.-SIG.: By opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancêtres" fanfare.



V. by QSL-card or letter. Rp. - PUB.: Prgr. sched. free on request.

R. GAROUA (R. Cameroon III) (Go.)

ADDR.: B. P. 103, Garoua. Te.: 012.

L.P.: Dir.: G. Derrier, Asst. Dir.: B. Malgana.

HOME SERVICE in French, Haoussa, Poulfoulé: W.: 11.15-13.15 (Fri. 13.45), 17.30 (Thurs., Sat. 17.00)-20.55 (Thurs., Sat. 21.30). Sun. 08.00-13.15, 17.00-21.30.

1348 kc/s 224.0 m 1 kW: as above
5010 - 59.88 - 4 - : 17.00-21.30
7240 - 41.44 - 4 - : 08.00-13.45

N. in French: 12.00 (Sat. 12.15). N. in Vernaculars: 19.00, 20.00. - ANN.: "Ici Garoua, Radiodiffusion du Cameroun". - INT.-SIG.: Flute & tam-tam. - V. by QSL-card.

★ CANARY ISLANDS (Spanish) ★

L.T.: GMT. - Pr.L.: Spanish, English. - Po.: 900.000. - Revrs.: 100.000. - E.C.: 115/190 V. A.C., 50 c/s.

RADIO LAS PALMAS (Comm.) AD.: 10 min. per h.

ADDR.: Calle Triana 134 Dpto., Las Palmas. - L.P.: Dir.: P. Pastor S. HOME SCE.: EAJ50 1313 kc/s 228.5 m 0.5 kW: D. 09.00-24.00.

ANN.: "Transmite la Estación E.A.J. 50 Radio Las Palmas". - INT.-SIG.: Pasodoble "Islas Canarias". - V. by QSL-card.

RADIO CLUB TENERIFE (Cultural and Comm.)

ADDR.: Apt. de Correos 225, S. Cruz de Tenerife.

HOME SCE.: Call EAJ-.

43 1412 kc 212.4 m 0.4 kW 12.00-17.00, 18.00-23.00 occ. sat.

8AB7295 kc 41.12 m 0.25 kW 17.00-18.00, 21.00-23.00/01.00

ANN.: "R. Club Tenerife, en Santa Cruz de Tenerife, Islas Canarias".

- INT.-SIG.: Opening "Los Voluntarios"; from 17.00 "Islas Canarias" (pasodoble). - V. by QSL-card.

RADIO ATLANTICO (Broadc. System of the Falange)

ADDR.: Calle General Franco 50, Las Palmas. - L.P.: Dir. José A. Gutiérrez Peña. Dir. Tec.: J. G. Bautista.

HOME SCE. in Spanish & English:

1500 kc/s 200 m 2 kW: D. 08.00-24.00.

7000 kc/s 42.86 m, 9490 kc/s 31.61 m 1 kW.

ANN.: English: "This is R. Atlantico". - Spanish: "Transmite Radio Atlantico". - INT.-SIG.: Canary guitar-accords. - V. by QSL-card. - F.P.L.: s.w.-tr. 2 kW.

RADIO JUVENTUD DE CANARIAS (C.A.R.).

ADDR.: Castillo 27, Santa Cruz de Tenerife.

HOME SCE.: EFJ57 1248 kc/s 240 m 1.2 kW:

08.00-09.00, 12.00-16.00, 17.50-24.00.

ANN.: "Radio Juventud de Canarias".

INT.-SIG.: The first notes from "Arroro canario".

LA VOZ DE LA ISLA DE LA PALMA

ADDR.: Emisora Sindical, Santa Cruz de la Palma. - L.P.: Dir.: M. F. de las Casas.

HOME SCE.: 7385 kc/s 40.62 m 0.35 kW: W.: 08.00-09.00, 12.00-16.00, 19.00-23.00. Sun.: 08.00-16.00, 19.00-23.00. - V. by letter.

STATIONS UNDER CONSTRUCTION:

R. Nacional de España, Santa Cruz de Tenerife. - R. Orotava, Valle de la Orotava, Tenerife.

★ CAPE VERDE ISLANDS (Portuguese) ★

L.T.: GMT+2 h. - Pr.L.: Portuguese, English. - Po.: 182.000. - Revrs.: 5.500. - E.C.: 220/240 V., D.C.

RADIO CLUBE DE CABO VERDE (Pr.)

ADDR.: C.P. 26, Praia.

HOME SCE.: CR4AA 3960 kc/s 75.76 m 5 kW: 20.00-22.00.

ANN.: "Aqui Praia, estação de ondas curtas do R. Clube de Cabo Verde". - INT.-SIG.: Four notes on marimba. - V. by QSL-card.

RADIO CLUBE MINDELO (Pr.)

FL: By state, adv. and private help. - ADDR.: C.P. 101, S. Vicente.

L.P.: Pres.: A. Feijó Pereira. Dir. Tec.: J. de Azevedo.

HOME SCE.: CR4AB 4755 kc/s 63.09 m 0.15 kW: 20.00-22.00.

N.: 21.00.

ANN.: "Aqui, S. Vicente de Cabo-Verde, Provincia Ultramarina de Portugal, Fala-vos a Estação, Emissora do Rádio Clube Mindelo, no comprimento de onda de...". - V. by QSL-card or letter. - F.P.L.: 2 s.w.-st.'s (1 and 0.25 kW).

R. BARLAVENTO (Local club, non-comm.). ADDR.: C.P. 29, S. Vicente. - L.P.: Dir. Gen.: D. Graciano Cohen. - HOME SCE.: CR4AC 3960 kc/s 75.76 m 1 kW: W.: 14.30-15.30, 22.00-24.00.

Sun.: 15.00-17.00, 22.00-24.00. - V. by QSL-card.

★ CENTRAL AFRICAN (Republic) ★

L.T.: GMT+1 h. - Pr.L.: French, Sango. - Po.: 1.146.000. - Revrs.: 5.000 - E.C.: 220 V., A.C., 50 c/s.

RADIO BANGUI (Go.)

FL: By the French and Central African State. - ADDR.: B. P. 700, Bangui. Te.: 52 - L.P.: Dir.: P. Pouillon. Dir. Tec. M. Mercier.

HOME SERVICE in French & Vernaculars:

W.: 05.00-06.30, 11.30-12.30, 16.30-20.00 (Sat. 16.30-22.00). Sun. 06.00-21.00.

1570 kc/s 190.0 m 0.25 kW: as above

5035 - 59.58 - 4 - : W. 17.00-22.00. Sun. 16.30-21.00

7220 - 41.55 - 4 - : W. 05.00-06.30. Sun. 06.00-16.30

N. in French: W.: 05.00, 06.00, 11.35, 18.30, 20.50 (Sat. 21.50). Sun.: 11.30, 18.30, 20.50. Sango: W.: 05.30, 17.15. Sun.: 08.15, 17.15. - Folklore Music: Mo. 17.30. Sun. 09.00.

ANN.: "Ici Bangui Radiodiffusion Centrafricaine". - INT.-SIG.: First seven bars of Central African's hymn, played on the Zanza (a local instrument). - V. by QSL-card. Re. in French. - F.P.L.: 30 kW s.w. tr. 1962.

★ COMORES ISLANDS (French) ★

L.T.: GMT+3 h. - Pr.L.: French, Vernaculars. - Po.: 183.132. - Revrs.: 10.000. - E.C.: 220V., A.C., 50 c/s.

RADIODIFFUSION TELEVISION FRANÇAISE (Go.)

ADDR.: B.P. 29, Dzaoudzi, Ile Mayotte, Comores. Te.: 25. - L.P.: Dir.: R. Roux.

HOME SERVICE in French and Comorian

3331 kc/s 90.06 m 4 kW : 03.30-05.00, 09.00-10.30, 15.30-19.00
7260 - 41.32 - 4 - : 03.30-05.00, 09.00-10.30, 15.30-19.00

N. in French: 03.30, 09.30, 19.00. N. in Comorian: 09.00, 16.15.

ANN.: "Ici les Comores - Radiodiffusion-Télévision-Française - station de Dzaoudzi". - INT.-SIG.: Folklore Music. - V. by letter.

★ REPUBLIC OF THE CONGO ★

(Capital - Leopoldville)

L.T.: Leopoldville, Coquilhatville: GMT +1 h. Elisabethville, Stanleyville, Bukavu, Luluabourg: GMT +2 h. - Pr.L.: French, Lingala, Kikongo, Tshiluba, Kiswahili. - Po.: 14.000.000. - Rvrs.: 105.000. - E.C.: 220 V., A.C., 50 c/s.

RADIOFUSION CONGOLAISE (Go.)

ADDR.: B.P. 7699, Leopoldville Cable: Radio Congolaise. Te.: 3171. - L.P.: Dir.: C. Athapol. Vice Dir.: A. Luseko. Dir. Tec.: J. Monungu.

NATIONAL PROGRAMME (Leopoldville):

9700 kc/s 30.93 m 50 kW: 04.00-07.00 (Sun. 09.00), 15.30-21.00 (Sat./Sun. 23.00).

11795 - 25.43 - 50 - : 10.00-13.00 (Sat. 15.00). Sun. 09.30-15.00. FM: 90 mc/s 3.33 m 0.25 kW (all prgrs.)

N. in French: 04.15 (W), 05.30, 10.45, 11.45, 18.30, 20.50.

FOREIGN PRGR. on 11755 kc/s 25.52 m 50 kW:

17.00-20.00 to Africa; 20.30-23.30 to Europe, Asia, Oceania; 00.00-03.00 to the Western Hemisphere.

N.: English: 21.30-21.45, 02.30-02.45. French: 18.30-19.00, 22.15-22.30, 01.45-02.00. German: 20.45-21.00. Italian: 22.00-22.15. Spanish: 22.45-23.00, 01.00-01.15.

ANN.: F.: "Ici Leopoldville, Radiodiffusion Congolaise". - INT.-SIG: Tam Tam (native xylophone beat). - V. by QSL card and letter.

REGIONAL STATIONS (in French and regional languages)

R. Leopoldville: L.P.: Dir.: C. Matshiaba.

4872 kc/s 6150 m 10 kW: D. 16.30-20.30.

R. Coquilhatville: ADDR.: B.P. 1061, Coquilhatville. - L.P.: Dir.: A. Nzondomyo. - 5993 kc/s 50.05 m 10 kW: D. 15.30-20.00.

R. Bukavu: ADDR.: B.P. 475, Bukavu. - L.P.: Dir.: B. Mbula. 4834 kc/s 62.06 m 10 kW: 15.30-20.00

R. Elisabethville: ADDR.: B.P. 1038, Elisabethville.

5956 kc/s 50.37 m 100 kW: 15.30-20.00.

R. Luluabourg: L.P.: Dir.: L. Wanya.

6125 kc/s 48.98 m 10 kW: 16.30-20.30.

R. Stanleyville: ADDR.: B.P. 1745, Stanleyville. - L.P.: Dir.: G. Lamazani.

6085 kc/s 49.30 m 10 kW: 05.00-07.00, 11.00-13.00, 16.30-21.00.

★ CONGO (Franco-African Community) ★

L.T.: GMT +1 h. - Pr.L.: French, English, Portuguese. - Po.: 4.824.000. - Rvrs.: 11.000. - E.C.: 220 V., A.C., 50 c/s.

RADIO BRAZZAVILLE (Go. - belongs to R.T.F.)

ADDR.: B.P. 108, Brazzaville. Cable: Radiodiffusion. Te.: 2234. L.P.: Dir. Gen.: C. Boissiere. Dir. Adm.: A. Taillade. Dir. Tec.: H. De-froyenne. Dir. Inf.: R. Branellec. Dir. Prgr.: H. de Camaret.

INTERNATIONAL SERVICE

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
5970	50.25	1.5	9770	30.70	7	15190	19.75	50
7105	42.22	5	11710	25.62	7/50	15445	19.43	50
9545	31.43	50	11725	25.58	50	17720	16.93	50/1.5
9730	30.83	7	11970	25.06	7	21500	13.90	50/1.5

I=Af. (No. & So.); II=No. Am.; III=Madagascar; IV=We. Af.; V=Au.; VI=M. East; VII=F. East; VIII=So. Am.

Times	kc/s	Areas
04.30-07.30	15445	I/III
	11725	I/III
05.00-07.00	9730, 7105, 5970	II/IV/I
05.00-07.30	17720	III/IV/I
08.30-09.15	15445, 21500	III/IV/I
11.00-12.30	11710, 7105, 21500	I
12.30-13.00	11710, 17720, 21500	I/IV
10.00-12.30	17720	IV/VI
11.00-12.30	11970	I
13.30-15.20	17720, 21500	VII
16.00-18.25	11725, 9770, 7105, 5970, 21500	III/IV
18.30-19.00	11725, 9770, 7105, 5970, 21500	I/IV
19.00-20.00	15190	I/IV
19.00-22.00	11725, 9770, 7105, 5970	I/IV
20.30-22.05	15190	IV
23.15-00.15	9730	VII
23.15-02.00	11725	II

F.: 04.30, 05.00, 06.00, 06.45. E.: 05.15. F.: 09.00. E.: 08.30. F.: 11.30. F.: 12.45. F.: 10.00, 11.00, 12.00. P.: 10.45. P.: 11.45. F.: 13.30, 15.00. E.: 14.30. F.: 16.00, 17.30. E.: 17.15. F.: 18.45. E.: 19.30. F.: 19.00. F.: 20.30, 22.00. F.: 22.00. F.: 23.30. E.: 01.15.

ANN.: F.: "Ici Radio Brazzaville". E.: "This is Radio Brazzaville broadcasting from the Congo". P.: "Aqui Radio Brazzaville, Brazzaville".

INT.-SIG.: Five different notes played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box. - V. by QSL-card or letter. Rp. - PUB.: Prgr. sched. monthly. Free upon request.

RADIO CONGO (Go.)

ADDR.: B. P. 2241, Brazzaville. Te.: 2408. - L.P.: Dir.: Malonga. Dir. Prgr.: Bitouloulou. Chief Editor: Itoua.

HOME SERVICE in French: W. 04.30-06.00, 11.30-13.00, 16.30-21.00 (Sat. 22.00). Sun. 07.00-21.00.

1407 kc/s 213.5 m 0.25 kW: as above

4843 - 61.95 - 25 - : evening

7175 - 41.84 - 4 - : as above

9605 - 31.23 - 25 - : daytime

ANN.: "Ici Radio Congo, Station de Radiodiffusion de la République du Congo émettant de Brazzaville en ondes moyennes sur 213 m, et en ondes courtes sur - INT.-SIG.: Zanzi solo (native instrument).



V. by letter.

★ DAHOMEY (Republic) ★

L.T.: GMT +1 h. - Pr. L.: French, Vernaculars. - Po.: 1.780.000. - Rvrs.: 20.000. - E.C.: 230/400 V., A.C., 50 c/s.

RADIO DAHOMEY (Go.)

Fl.: By Go. and SORAFOM. - ADDR.: Radiodiffusion de Dahomey, B.P. 366, Cotonou. Cable: Radiodahomey. Te.: 402. - L.P.: Dir. Gen.: H. da Piedade. Dir. Tec.: V. Comlan. Dir. Prgr.: A. P. Renucci.

HOME SERVICE in French, Fon, Yoruba, Dendi, Bariba, Mina. Mo.-Fri.: 05.15-06.30, 11.15-12.15, 17.00-21.30. Sat. 05.15-06.30, 12.00-23.00. Sun. 07.00-22.00.

1475 kc/s 203 m 1 kW: as above.

4875 - 63.60 - 30 - : 06.15-08.45, 17.00-21.30 (Sat. 23.00, Sun. 22.00).

7190 - 41.72 - 30 - : 07.00-17.00.

N. in French: 06.15 (W), 08.00 (Sun.), 11.40 (exc. Sat.), 12.40 (Sat.), 19.00, 20.55 (Mo.-Fri.), 22.45 (Sat.). - N. in Vernaculars: 17.00 (Sun. 17.20, Fri. 18.00), 18.30. - Wrp.: 18.55.

ANN.: "Ici Cotonou, Radiodiffusion de Dahomey émettant sur...". - INT.-SIG.: Dahomey Tam-Tam. - V. by letter.

★ EGYPT (United Arab Rep.) ★

L.T.: GMT +2 h. (Su. 1/5-30/9 GMT +3 h.). - Pr.L.: Arabic. - Po.: 26.000.000. - Rvrs.: 1.705.000. - E.C.: 110/220 V., A.C., 50 c/s.

U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)

Fl.: By state subsidy and adv. - AD.: allowed in Popular-Cultural Prgr. ADDR.: Offices & Studio Centre I: 4, Sherifein Str., Cairo. - Studio Centre II: 5, Elwi Str., Cairo. Cable: "Kahiradio". - L.P.: Dir. Gen.: M. A. Hammad. Dep. Dir. Gen.: S. Amer (Engineering, Planning, Transmitting). Dir. Prgr.: A. H. El-Hadidi. Dir. TV: A. H. Younes. Dir. Adm.: M. M. Taifour. Gen. Controller of Research, International Relations, Advertising: M. El-Bassiouni. Dep. Dir. Planning, Transmitting: E. El Kashlan. Dir. of Running: E. Fouad.

STATIONS: Medium Waves

	kc/s	m	kW		kc/s	m	kW
Cairo III	557	538.6	50	Minia	1079	278.0	2
Cairo IV	620	483.9	30	Luxor	1079	278.0	2
Cairo I	773	388.1	50	Sohag	1142	262.7	2
Cairo V	818	366.7	30	Asswan	1178	254.7	2
Cairo II	926	324.0	100	Alexandria	1277	234.9	10
Assiout	980	306.1	2	Cairo VI	1313	228.5	2

Short Waves: 50/70/90/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
6080	49.34	9630	31.15	9795	30.62	12050	24.90	15475	19.38
6218	48.25	9715	30.88	9805	30.60	15115	19.85	17690	16.96
7050	42.55	9750	30.77	11745	25.54	15210	19.72	17760	16.89
7140	42.02	9755	30.76	11915	25.18	15350	19.54	17835	16.82
7180	41.78	9775	30.69	11940	25.13	15430	19.44	17920	16.74

HOME SERVICE

MAIN ARABIC PRGRS. (daily): * exc. Fri.

04.00-07.00 on 818/1079/980/1142/1178/9805/15475 kc/s

07.00-09.00 on 926/1079/980/1142/1178/9805 kc/s

*09.00-11.00 on 926/9805 kc/s

11.00-13.00 on 818/1079/980/1142/1178/9805/15475 kc/s

13.00-14.45 on 818/9805/ kc/s

14.45-23.40 on 818/1079/980/1142/1178/9805/15475 kc/s

Fri. only:

09.00-11.00 on 926/1079/980/1142/1178/9805/15475 kc/s

National Music: D.: 05.40, 06.15, 09.30, 11.45. - N.: D.: 04.45, 12.30, 15.00, 18.30, 21.00, 23.15. - T.S.: Cairo University clock at the beginning of the main News. Time Dots are announced each half hour.

VOICE OF ARABS:

03.00-04.20 on 926/7050/11745 kc/s. - 07.00-09.00 on 620 kc/s. - 09.00-13.30 on 620/7050/11745 kc/s. - 13.30-14.00 on 620 kc/s. - 16.30-18.00 on 620/7050/11745 kc/s. - 18.00-23.15 on 620/7050/11745/15430 kc/s.

N. & Commentary: D.: 03.30, 04.00, 09.15, 11.30, 13.25, 18.00, 19.10, 20.30, 23.00.

SUDANESE PRGR.:

04.30-06.00 on 926/7050/11745 kc/s

14.00-16.20 on 620/7050/11745 kc/s

16.20-16.30 on 620 kc/s

N. & Commentary: D.: 04.45, 05.15, 14.20, 14.55, 15.45.

SECOND PRGR. (Cultural): 19.00-22.00 on 926 kc/s.

POPULAR CULTURAL PRGR.: 14.00-19.00 on 926 kc/s, 19.00-22.00 on 1313 kc/s. - N.: D.: 14.15, 16.30, 19.00.

ALEXANDRIA REG. PRGR.: 11.30-12.30, 15.00-20.00 on 1277 kc/s.

N.: D.: 11.50, 17.30.

FOREIGN LANGUAGE PRGR. (Local Service):

05.00-08.00, 10.30-14.00 on 557 kc/s. 14.00-17.00 on 773 kc/s.

17.00-22.00 on 557 kc/s. Fri., Sun. also 08.00-10.30 on 557 kc/s.

N. & Commentary: English: 05.30, 12.15, 18.00. - French: 06.00, 12.00, 19.00. - German: 16.00. - Greek: 05.00, 13.00. - Italian: 15.00.

FOREIGN SERVICE:

TO SOUTH & SOUTH EAST ASIA: 10.30-14.30 on 17920 kc/s (Arabic 10.30, Indonesian 12.30, Pushtu 13.30) 11.00-15.30 on 17835 kc/s (Malay 11.00, Thai 11.45, Panghai 12.30, English 13.30, Urdu 14.30).

TO EAST & CENTRAL AFRICA: 14.45-17.00, 17.45-18.30 on 17920 kc/s (Amharic 14.45, Swahili 15.30, Lingala 17.45). 15.45-18.30 on 17835 kc/s (Sudanese accents 15.45, Somali 16.00, Nianga 17.00, English 17.45).

TO WEST AFRICA: 19.15-21.30 on 17690 kc/s (English 19.15, Hausa 20.00). 18.45-20.45 on 17835 kc/s (French 18.45, Foulani 19.45).

TO MIDDLE EAST: 16.15-19.00 on 12050 kc/s (Persian). 17.00-19.00 on 9630 kc/s (Kurdish 17.00, Turkish 18.00).

TO EUROPE: 19.30-22.30 on 11915 kc/s (French 19.30, German 20.30, English 21.30). 19.30-21.30 on 9630 kc/s (Italian 19.30, Arabic 20.30).

TO NORTH & SOUTH AMERICA on 9795/15475 kc/s: 00.00-00.45 Portuguese to Brazil, 00.45-01.30 Spanish to So. America, 01.45-02.45 Arabic to No. & So. America.

TO ISRAEL: On 557 kc/s:

Hebrew: 04.00-05.00, 14.00-17.00.

DICTIONARY SPEED NEWS: On 7050/11745 kc/s:

Arabic: 06.00-06.30, 13.00-13.50. - English: 06.30-07.00.

INT.-SIG.: Camel Bells. - V.: Reports wanted. They are answered by QSL-card. Reports should be addressed to Monitoring Dept.: Engineering Section, U.A.R. Broadcasting, Cairo. - **PUB.:** Prgr. schedules twice per year.

★ ETHIOPIA ★

L.T.: GMT+3 h. - Pr. L.: Amharic, Arabic, English, Somali. - Po.: 18.000.000. - Rcvrs.: 305.000. - E.C.: 110/220 V., A.C., 50 c/s.

RADIO ADDIS ABABA (Go.)

FL: By Go. - AD: 15 min. twice daily, 11.45-12.00, 17.45-18.00. - **ADDR.:** Imperial Ethiopian Government, Ministry of Information, P. O. Box 1364, Addis Ababa. **Cable:** Ethiopress. **Te.:** 2356. - **L.P.:** Vice Minister H.E.: A.A. M. Dessalegn. **Dir. Gen.:** A. K. Asfaw. **Dir. Prgr. & For. Rel.:** A.T. Abebe. **Dir. Tec.:** A.A. Lemma.

STATIONS: Addis Ababa.

6185 kc/s 48.50 m 10 kW

7290 - 41.15 - 10 - 11955 kc/s 25.09 m 20 kW

9610 - 31.22 - 10 - 15345 - 19.55 - 20 -

17775 - 16.88 - 20 -

HOME SEC.:

On 7290/9610 kc/s: 05.00-05.30 (W), 06.30-09.00 (Sun.), 10.00-12.00 (W), 10.00-11.00 (Sun.). On 6185/7290 kc/s: 16.00-18.00, 19.00-20.00. Amharic: 05.00-05.30 (W), 06.30-06.45 (Sun.), 11.00-12.00 (W), 17.00-18.00, N.: 05.00 (W), 06.30 (Sun.), 11.00 (W), 17.00. - Somali: 10.00-10.15 (W), 16.30-17.00, N.: 10.00 (W), 16.30. - English: W.: 10.15-11.00, 16.15-16.30, 19.30-20.00. N.: 10.15, 16.15. Sun.: 10.00-

11.00, 16.15-16.30. N.: 10.00, 16.15. - Arabic: 08.15-09.00 (Sun.), 16.00-16.15. - **Musical Prgr. (English):** W. 10.30-11.00, 19.30-20.00. Sun. 10.15-11.00.

INTERNATIONAL PRGR. in English (News & Music):

D.: 15.10-15.50 on 17775 kc/s to M. East, 18.10-18.50 on 15345 kc/s to Europe, 20.10-20.50 on 11955 kc/s to W. Africa.

ANN.: Amharic: "Yih Yei tiopia Radio Tabia New". English: "This is R. Addis Ababa the Voice of Ethiopia". - **INT.-SIG.:**



V. by QSL-card. Re. in E., F. or Amharic. - **F.P.L.:** Mw. and sw. broadc. netw. for the whole Empire.

LUTHERAN WORLD FEDERATION BROADCAST. SERVICE (Rel.)

FL: By free-will offerings by the membership of the churches belonging to the LWF. - **ADDR.:** P. O. Box 654, Addis Ababa. **Cable:** Lutherworld. **Te.:** 6730. - **L.P.:** Dir. Gen.: Rev. Dr. Sigurd Aske. **Dir. Prgrs.:** Rev. U. Fick. **Dir. Tec.:** E. Kraemer.

STATION: "Voice of the Gospel" 1 kW:

6140 kc/s 48.86 m 11880 kc/s 25.25 m 15345 kc/s 19.55 m

9665 - 31.04 - 15315 - 19.60 - 15415 - 19.46 -

9740 - 30.80 - 15340 - 19.56 - 17740 - 16.91 -

9760 - 30.74 -

D. PRGR.: Nov. 61-Feb. 62.

14.15-15.15 on 17740 kc/s & 16.00-17.00 on 15345 kc/s to So. India, F. East; 17.00-18.00 on 6140 kc/s to Ethiopia; 18.00-19.00 on 11930 kc/s to Tanganyika, So. Africa, Malagasy Rep.; 19.00-20.00 on 9665 kc/s to M. East; 20.00-21.00 on 15340 kc/s to W. Africa.

ANN.: "This is Radio Voice of the Gospel, Addis Ababa, Ethiopia". - **F.P.L.:** 100 kW tr. at the end of 1962.

★ GABON (Republic) ★

L.T.: GMT+1 h. - Pr. L.: French. - Po.: 440.000. - Rcvrs.: 10.000- E.C.: 117 V., A.C., 50 c/s.

RADIODIFFUSION NATIONALE GABONAISE (Go.)

(Technical Assistance from SORAFOM).

ADDR.: R. Gabon, B. P. 150, Libreville. **Cable:** Radiogabon. **Te.:** 532. - **L.P.:** Dir. Gen.: G. Rawiri. **Dir. Prgrs. & Inf.:** V. Cleuet. **Dir. Tec.:** R. Haillecourt.

HOME SERVICE in French: 05.00-06.30, 11.15-13.00, 17.00-21.00. 1520 kc/s 197.3 m 1 kW: as above.

4777 - 62.80 - 25 - 05.00-06.30, 17.00-21.00.

7270 - 41.27 - 25 - 11.15-13.00.

N.: 06.00, 11.45, 12.55, 18.30.

ANN.: "Ici Libreville, Radiodiffusion du Gabon". - V. by letter.

★ GHANA ★

L.T.: GMT. - Pr. L.: English, Akan, Ewe, Dagbani, Ga, Hausa, Nzema, Fench. - Po.: 6.500.000. - Rcvrs.: 85.000. - E.C.: 230/400 V., A.C., 50 c/s.

GHANA BROADCASTING SYSTEM (Go.)

FL: By Govt. Income from Wired Relay Service which offsets in part the State subsidy. - **ADDR.:** Broadcasting House, P. O. Box 1633, Accra. **Cable:** Broadcasts. **Te.:** 7551.

L.P.: Dir. Broadc.: W. F. Coleman, M.B.E., B.Sc., A.M.I.E.E. **Dep. Dir.:** B. Spio-Garbrah, B.A. **Dep. Dir., Chief Eng.:** H. H. Walter, A.M.I.E.E. **Head Prgr.:** J. Ghartey. **Head News:** E. G. K. Adjorlolo, M.Sc.

HOME SERVICE:

3366 kc/s 89.12 m 20 kW: 05.30–08.00, 16.30–22.15 (Sat. 23.00) d*
 4915 – 61.04 – 2 – 05.30–08.00, 12.00–22.15 (Sat. 23.00) d*
 7295 – 41.12 – 10 – 12.00–22.15 (Sat. 23.00) d*
 9640 – 31.12 – 20 – 12.00–16.00 d*
 *Sun. 05.30–08.00, 16.30–22.15 on 3366 kc/s, 05.30–22.15 on 4915 kc/s,
 08.00–16.00 on 9640 kc/s, 07.30–22.15 on 7295 kc/s.
 N.: English: 06.00³, 07.00³, 13.00³, 18.00³, 21.00³, 22.15³.
 1) Home N. 2) International N. 3) N. Highlights.
 Ghana Languages: 05.40, 12.15, 16.30, 17.15. – Wrp.: 12.00, 17.45. –
 For Schools: Mo.–Fri. 08.00–08.35, 11.00–12.00 on 9640 kc/s. 08.00–
 08.35, 11.00–12.00 on 4915 kc/s, 07.30–08.35, 11.00–12.00 on 7295
 kc/s.

SPECIAL TRANSMISSIONS TO GHANAIAI FORCES IN THE CONGO

17865 kc/s 16.79 m 10 kW: 12.00–18.15.
 15210 – 19.72 – 10 – 18.45–22.15 (Sat. 23.00).

FOREIGN SERVICE: 4 tr.'s, 100 kW each.

Areas: I=Sudan, Ethiopia, Somali; II=Angola, Mozambique; III=E. Africa; IV=S. S.W. & S. E. Africa; V=W. Africa; VI=U. A. R., Sudan; VII=Port. Guinea; VIII=Congo, C. Africa, Madagascar; IX=E. Africa & N. E. Congo; X=U. K., Europe.

STATIONS:

6070 kc/s 49.42 m 11805 kc/s 25.41 m 17740 kc/s 16.91 m
 9545 – 31.43 – 15285 – 19.62 – 21545 – 13.92 –

Arabic	kc/s	Ar.	French:	kc/s	Ar.
16.30–17.15	21545	VI	17.45–18.30	9545	V
				11805	VIII
			19.15–20.00	9545	V
English				11805	VIII
14.15–15.00	21545	I		6070	V
15.00–15.45	21545	III	20.45–21.30	9545	V
	17740	IV			
	9545	V	Hausa:		
17.00–17.45	9545	V	15.45–16.30	9545	V
18.30–19.15	11805	I		6070	V
20.00–20.45	15285	IV	Portuguese:		
	9545	V	14.15–15.00	17740	II
20.45–21.30	11805	X	16.30–17.15	17740	II
21.30–22.15	6070	V		6070	VII
	9545	V	Swahili:		
			17.15–18.00	21545	III
			18.30–19.15	21545	III
				15285	IX

ANN.: "This is the National Service of the Ghana Broadcasting System" preceded by drumming or "This is R. Ghana, Accra". – INT.-SIG.: Guitar. – V. by letter in English. – PUB.: "Radio Review and TV Times", weekly. Copies obtainable from the Guinea Press, P. O. Box 2638, Accra, (3d).

★ GUINEA (Rep.) ★

L.T.: GMT. – Pr. L.: French, Vernaculars. – Po.: 3,000,000. – Rvrs.: 40,000. – E.C.: 230 V., A.C., 50 c/s.

RADIODIFFUSION NATIONALE (Go.)

ADDR.: B. P. 617, Conakry. Cable: Radio Guinée, Te.: 2202. – L.P.: Dir.: E. Tompapa. Dir. Prgr.: F. Cissé. Dir. Tec.: M. Saadi.

HOME SERVICE in French, National languages, English, Creole-English, Portuguese, Creole-Portuguese, Ouolof, Bambara, Mandjake, Arabic: W. 06.00–08.00, 12.00–14.00, 18.00–22.30 (Sat. 16.00–24.00). Sun. 09.00–14.00, 16.00–23.30.

1403 kc/s 213.8 m 4 kW: as above:
 4910 – 61.10 – 18 – 06.00–08.00, 18.00–24.00.
 7125 – 42.11 – 18 – 12.00–14.00.

N.: French: W. 06.15, 07.00, 12.45, 16.45 (Sat. only), 18.15, 20.00, 21.50. English: Sat. 17.05. Creole-English: Sat. 17.30. Portuguese: Sun 12.00. Creole-Portuguese: Sun. 12.10. Mandjak: Sun. 12.25. Ouolof: Sun. 19.00. Bambara: Sun. 19.25. Arabic: Sun. 19.35. Nat. Languages: D. 13.15–13.45, 18.30–19.50.

ANN.: F.: "Ici Conakry, Radiodiffusion de la République de Guinée" or "Ici Conakry, Radiodiffusion Nationale" (before news). – INT.-SIG.: First movement of the popular heroic song "Alpha Yaya" on guitar:



V. by letter. – F.P.L.: Reg. st.'s at Sonfonia & Kipé.

★ GUINEA (Portuguese) ★

L.T.: GMT÷1 h. – Pr.L.: Portuguese. – Po.: 547,000. – Rvrs.: 1788. – E.C.: 220 V., A.C., 50 c/s.

EMISSORA DA GUINÉ (Go.)

AD.: 15 min. a day. – ADDR.: Emissora da Guiné, Bissau. – L.P.: Pres.: Eng. F. C. Vára.

HOME SCE.: 7948 kc/s 37.75 m 1 kW: 13.00–14.00 (Sun. only), 21.00–23.00. – N.: 21.45–22.00.

ANN.: "Aqui Bissau, Emissora da Guiné Portuguesa". – INT.-SIG.: "Variations in D-minor" by A. Paredes played on guitar. – V. by QSL-card. – F.P.L.: Power 5 kW.

★ GUINEA (Spanish) ★

L.T.: GMT+1 h. – Pr.L.: Spanish. – Po.: 210,000. – Rvrs.: 1,600.

EMISSORA DE RADIODIFFUSION SANTA ISABEL (Go.)

ADDR.: Apt. de Correrios 195, Santa Isabel, Fernando Poo. – L.P.: Dir.: D. A. G. Margallo Barbera.

HOME SCE.: 6240 kc/s 48.07 m 0.7/1.5/5 kW: W. 06.30–07.30, 12.00–14.00, 17.00–21.00. Sun. 12.00–14.30

N. in Spanish: 07.00, 13.15, 20.30. Bubi: W. 18.00. Pamue: W. 17.00. Effic: Mo., Thurs. 18.30. Ibo: Tues., Fri. 18.30. Annobona: Sat. 18.30.

– ANN.: "Aqui Emissora de Radiodifusión de Santa Isabel de Fernando Poo". – INT.-SIG.: "Los Voluntarios". Close down: Spanish National Hymn. – V. by QSL-card.

RADIO ECUATORIAL (Go.)

ADDR.: Apt. 57, Bata, Provincia de Rio Muni. – L.P.: Dir.: F. de Anta Franco.

HOME SCE.: 7850 kc/s 38.20 m 0.4 kW: 10.00–13.45, 18.00–22.00. N.: 13.00. – ANN.: "Aqui Radio Ecuatorial Bata, Emissora de Rio Muni". – V. by QSL-card.

R. CALATRAVA, Calatrava, Rio Muni.

HOME SCE.: 6670 kc/s 45.00 m: 17.00–20.55.

INT.-SIG.: Closes with "Ave Maria".

★ IVORY COAST (Republic) ★

L.T.: GMT. – Pr. L.: French, Vernaculars. – Po.: 3,000,000. – Rvrs.: 55,000. – E.C.: 230 V., A.C., 50 c/s.

RADIO ABIDJAN (Go.)

FI.: 50% by the Ivory Coast Go. and 50% by the French Go. – AD.: 1% of all prgr.'s. – ADDR.: Radiodiffusion de la Côte d'Ivoire, B. P. 2261, Abidjan. Cable: Radiocotivoire. Te.: 3514. – L.P.: Dir.: A. Thiam. Dir. Tec.: D. Louis.

HOME SERVICE in French, Mossi, Sénoufo, Dioula, Ebié, Bété, English, Baoulé: Mo.–Fri.: 06.30–08.00, 12.15–13.30, 17.45–23.30. Sat. 06.30–08.00, 12.15–24.00. Sun. 07.15–23.30.

Inter Network:

1493 kc/s 201.0 m 4 kW: as above.
 4940 – 60.72 – 25 – 06.30–08.00, 18.30–24.00.

National Network:

1240 kc/s 242.1 m 1 kW} Mo.–Fri. 17.45–22.00.
 7215 – 41.58 m 25 – } Sat., Sun. 16.00–22.00.
 N. in French: 06.45 (W), 07.30, 12.45, 17.45 (W), 19.30, 20.00, 22.30. – N. in English: W. 19.00. – N. in Vernaculars: W. 17.45–19.00. – ANN.: "Ici Abidjan, Radiodiffusion de la Côte d'Ivoire émettant sur..." – INT.-SIG.:



V. by QSL-card. R. p.

TEST TRANSMISSIONS: A 100 kW tr. (for Foreign Sce.) may be testing the following frequencies:

7135 kc/s 42.05 m 100 kW: 06.00–08.00, 17.00–23.30.
 7215 – 41.58 – 100 – 06.30–23.30.
 9670 – 31.02 – 100 – not yet fixed.
 9735 – 30.82 – 100 – not yet fixed.
 11820 – 25.38 – 100 – 08.00–17.00 or 06.30–23.30.

F. PL.: Inauguration of a Foreign Sce. in 1962.

★ KENYA (British) ★

L.T.: GMT+3 h. – Pr. L.: English, Swahili, Gujarati, Kikuyu, Luo, Kamba, Hindustani, Arabic, African vernaculars. – Po.: 6,540,600. – Rvrs.: 56,794. – E.C.: 220/440 V., A.C., 50 c/s.

KENYA BROADCASTING SERVICE (Go.)

FI.: By state, licenses and adv. – AD.: W. only. Spot announcements & sponsored prgr.'s at various times.

Kenya - Libya

ADDR.: P. O. Box 621, Nairobi. **Cable:** Broadcasts. **Te.:** 27081. **Coast Regional:** P. O. Box 584, Mombasa. **Te.:** 6243. **West Kenya Regional:** P. O. Box 844, Kisumu. **Te.:** 23.00. - **L.P.:** Dir.: C. P. Jubba. **Dir. Tec.:** G. Phillips. **Dir. Prgr.:** A. M. Dean.

HOME SERVICES

English National (Nairobi): W. 03.15-06.15, 09.15-11.15, 13.00-20.00. **Sat.:** 03.15-06.15, 09.15-21.00. **Sun.:** 04.00-20.00.

863 kc/s 347.7 m 10 kW: **FM:** 93.9 mc/s 0.05 kW: as above.
4885 - 61.41 - 10 - : 03.15-06.15, 13.00-20.00 (Sat. 14.15-21.00, Sun. 14.15-20.00).

7240 - 41.44 - 10 - : 09.15-11.15 (Sat. 09.15-14.00, Sun. 04.00-14.00).

N.: 04.00*, 05.00* (W), 06.00* (Sun.), 06.14 (Sun.), 10.15, 11.00* 16.00* (Mo.-Fri.), 16.10 (W), 17.00 (Sun.), 18.00*, 18.15 (W).

*) BBC-news.

Asian National (Nairobi): W. 03.30-05.00, 09.30-11.00, 14.00-19.35. **Sat.:** 03.30-05.00, 09.30-19.30. **Sun.:** 05.00-19.00.

683 kc/s 439.2 m 5 kW: as above.

4855 - 61.79 - 6 - : 03.30-05.00, 14.00-19.35 (Sun. 14.00-19.00).

7150 - 41.96 - 6 - : 09.30-11.00 (Sat. 09.30-13.45, Sun. 05.00-13.45).

African National (Nairobi): W. 03.00-04.30, 10.00-11.00, 14.30-19.30 (Sat. 20.00). **Sun.:** 04.00-11.00, 14.00-19.30.

750 kc/s 400.0 m 10 kW: as above.

4934 - 60.80 - 10 - : 03.00-04.30, 14.30-19.30 (Sat. 20.00, Sun. 14.00-19.30).

7210 - 41.61 - 10 - : 10.00-11.00 (Sat. 10.00-14.15, Sun. 04.00-11.00).

African Regional (Nairobi): W. 09.45-11.00, 13.15-16.15. **Sun.:** 09.45-11.00, 13.15-16.15.

1268 kc/s 236.6 m 2 kW: as above.

4950 - 60.60 - 6 - : 13.15-16.15.

7125 - 42.11 - 6 - : 09.45-11.00.

Coast Regional (Mombasa): 791 kc/s 379.2 m 20 kW: W. 03.30-04.45, 14.00 (Sat. 13.45)-20.30. **Sun.:** 06.15-20.30.

West Kenya Regional (Kisumu): W. 03.25-04.45, 09.30-11.00, 13.15-18.45. **Sun.:** 04.55-07.30, 10.55-18.30.

953 kc/s 314.6 m 5 kW: as above.

4804 - 62.45 - 5 - : 03.25-04.45, 13.15-18.30.

7290 - 41.15 - 5 - : 09.30-11.00 (Sun. 10.55-13.00).

ANN.: All tr.'s are regularly identified by the words "Kenya Broadcasting Service" preceded by the appropriate national or regional service identify. - **INT.-SIG.:** Sound of African birds. - **V.:** by letter.

FORCES BROADCASTING STATION (British Forces)

ADDR.: British Forces P.O. 10, Nairobi. **Te.:** 55232. - **L.P.:** St. Commander: M. A. Pachetbat.

STATIONS: 1448 kc/s 207 m 1 kW - 6112 kc/s 49.08 m 0.25 kW.

HOME SERVICE: English: W. 03.00-05.15, 09.30-20.00 (Sat. 21.00). **Sun.:** 04.00-20.00. Entertainment and BBC-Relay for British Troops in Kenya.

ANN.: "This is the Forces Broadc. Service East Africa".

INT.-SIG.:



V.: by QSL-card or letter. **R.p.:**

★ LIBERIA ★

L.T.: GMT + 1/4 h. - **Pr. L.:** English, Liberian-Vernaculars. - **Po.:** 2.000.000. - **Revs.:** 53.000. - **E.C.:** 110-220 V., A.C., 60 c/s.

LIBERIAN BROADCASTING CORPORATION (Go., Comm.)

FL.: By adv. - **AD.:** All day 7 days a week.

ADDR.: P. O. Box 594, Monrovia. **Cable:** Broadcast. **Te.:** 649. - **L.P.:** Gen. Mgr.: J. C. Knight. Chief Eng.: B. C. Allin. News Ed.: H. Andrews.

HOME SERVICE in English:

650 kc/s 461.5 m 10 kW: W. 06.45-09.45, 12.45-23.45.

3255 - 92.15 - 10 - f Sun. 07.45-22.45.

N. in English: 07.00, 08.45, 16.00, 20.00, 21.45. - **N. in African dialect:** 16.10. - **African N. in English:** 20.10.

ANN.: "This is Radio Liberia, Station ELBC Monrovia". - **V.:** by letter.

RADIO STATION ELWA (Non-comm., Cultural Missionary

Broadcast. Sec. of the Sudan Interior Mission).

FL.: Entirely by voluntary gifts of Christian people.

ADDR.: ELWA Radio Village, Box 192, Monrovia. **Cable:** Evangel.

Liberia. - L.P.: Gen. Mgr.: Rev. R. G. de la Haye. **St. Mgr.:** D. Reed. **Dir. Prgr.:** J. H. Pelley. **Dir. Tec.:** H. Ries. **Dir. French Dept.:** M. Weber. **Dir. African Languages:** Rev. W. H. Thompson. **News Editor:** A. Lueders.

STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
710	422.0	1	4770	62.89	10	15155	19.80	50
3225	93.05	0.5	11845	25.33	10/50	21535	13.93	0.5

HOME SCE. on 710, 3225 kc/s: W. 06.15-09.30, 12.45-22.20. **Sun.:** 06.15-23.15. - **Liberian Languages:** W. 07.15-09.15 (3225 kc/s only), 08.45-09.15, 16.15-18.00. **Sun.:** 06.15-08.15. - **N.:** English (BBC & African): 07.00, 09.15, 18.00, 20.00. **Sun.:** 09.15, 13.00, 20.00. **Liberian:** W. 20.45.

FOREIGN SCE.

West African Sce. on 4770 kc/s: W. 06.15-09.30, 19.00-20.15. **Sun.:** 06.15-13.45, 19.45-23.15. - **N. in English (BBC & African):** 07.00, 09.15, 20.00. **Sun.:** 09.15, 13.00, 20.00. **Liberian:** W. 20.45. - **West African Languages:** W. 19.00-19.45, 22.00-22.15 (exc. Tues., Sat.). - **French:** W. 21.00-22.00, **Sun.:** 21.15-21.45. - **Portuguese:** Tues. 21.45-22.30.

Central African Sce. on 11845 kc/s: W. 05.30-07.00, 11.00-16.15. **Sun.:** 15.30-19.30. - **N. English:** W. 06.15, BBC & African 11.00, 13.00. - **French:** D. 05.30-06.00, **Sun.:** 08.00-10.00. - **Hausa:** D. 14.30-15.30. - **Yoruba:** D. 13.30-14.30. - **Nigerian Languages:** 15.30-16.15.

Congo-East African Sce. on 15155 kc/s: D. 14.30-18.00. - **English:** W. 15.00, **Sun.:** 14.30. - **Amharic:** W. 14.30-15.00. - **French:** D. 16.45-17.45. - **Kikongo:** D. 16.15-16.45. - **Lingala:** D. 16.00-16.15. - **Swahili:** D. 15.30-16.00.

Middle East Sce. on 15155 kc/s: D. 18.00-19.30. - **Arabic:** D. 18.15-19.00. - **English:** 19.00-19.30 (exc. Greek 19.15-19.30 Tues. & Fri.).

North African Sce. on 15155 kc/s: D. 19.30-22.00. - **Arabic:** 20.30-21.30. - **French:** 19.30-20.30. - **Portuguese:** 21.30-22.00.

No. American Sce. on 11845/21535 kc/s: English: Wed. 01.00-03.45. **ANN.:** Home Sce. "This is ELWA Radio Village, broadcasting from Monrovia, Liberia". Foreign Sce. "This is ELWA Radio Village broadcasting from Monrovia, Liberia". French: "Ici ELWA Radio Village, Monrovia, Liberia. - **V.:** by QSL-card or letter. **R.p.:** appreciated. **Re. in E. or F. - PUB.:** R. News Bulletin quarterly, Prgr. sched. every six month, free on request. - **F.P.L.:** Expand. C. African Sce. to begin 04.00. So. American Sce. beginning 22.15.

★ LIBYA ★

L.T.: GMT + 2 h. - **Pr. L.:** Arabic. - **Po.:** 1.500.000. - **Revs.:** 400.000. - **E.C.:** 125/130/220 V., A.C., 50 c/s.

LIBYAN BROADCASTING SERVICE (Go.)

FL.: By Ministry of Information and Guidance. - **ADDR.:** P. O. Box 333, Tripoli, P. O. Box 274, Benghazi. **Cable:** Idaalibya. **Te.:** 1090 (Tripoli), 3000 (Benghazi).

L.P.: Dir. Gen. Ministry of Inf. & Guidance, Dir. of Press, Publication and Broadc.; Ess. A. F. El Hammali. **Prgr. Consultant:** S. Sued. **Dir. Tec.:** M. Arebi.

STATIONS: kc/s m kW

Tripoli	1052	285.1	50	Benghazi	7180	41.78	3
Benghazi	1484	202.2	10	Tripoli	9625	31.17	3
Benghazi	3305	90.77	7.5	Benghazi	11955	25.09	3
Tripoli	6140	48.86	1				

HOME SERVICE in Arabic: 05.00-07.00 (Fri. 07.30), 12.00-14.00, 16.00-22.00. - **N.:** 05.45, 12.30, 13.00, 13.55, 18.55, 19.30, 21.00, 21.55. - **L.L.:** (English) Fri. 16.45-17.00.

ANN.: "Hadihi dar Alidua Allibia" - **INT.-SIG.:** Prgr.s open and close with National Anthem. - **V.:** by QSL-card or letter. - **F.P.L.:** Tripoli and Beida 100 kW at the beginning of 1962. English, French & Italian prgr.s.

NO. 1 FORCES BROADC. STATION (British Forces).

ADDR.: No. 1 Forces Broadcasting Station, B.F.P.O. 57, Tripoli. **Cable:** Forces Broadcasting Tripoli. **Te.:** 2179. - **L.P.:** St. Commander: R. L. Angove, ALCM. **Prgr. Officer:** K. J. P. Doherty. **Techn. Officer:** J. Campbell.

STATIONS: 1394 kc/s 215 m 7.5 kW. - 1484 kc/s 202 m 1 kW (rel.). **D. PRGR. in English:** W. 04.30-06.30, 10.30-21.00 (Sat. 22.00). **Sun.:** 05.00-21.00. **N.:** relay of BBC-G.O.S.

ANN.: "This is the Forces Broadcasting Service Tripoli". - **V.:** by QSL-card. **R. p.:** Prgr. schedule free on request. - **F.P.L.:** Replacement with VHF tr. 93.4 mc/s with 20 kW (ERP) 1962.

NO. 5 FORCES BROADC. STATION (British Forces).

ADDR.: British Forces Post Office 55, Benghazi. - **L.P.:** St. Commander: S. Challoner. **Prgr. Officer:** D. J. Davis. **Techn. Officer:** N. Joyce. **STATION:** 833 kc/s 360 m 1 kW. - **D. PRGR. in English:** W. 04.30-06.15, 16.00-21.00 (Sat. 22.00). **Sun.:** 05.00-10.00, 16.00-21.00.

ANN.: "This is the Forces Broadcasting Service Benghazi" - **V.:** by QSL-card. **Prgr. schedule free on request. - F.P.L.:** Replacement FM tr.'s (band II) 1962.

ARMED FORCES RADIO & TV See U.S.A.

★ MADAGASCAR (Republic) ★

L.T.: GMT+3 h. – Pr. L.: French, Malgache. – Po.: 5.800.000. – Revrs.: 120.000. – E.C.: 110/220 V., A.C., 50 c/s.

RADIODIFFUSION DE MADAGASCAR (Go.)

FL.: Malgache Go. (1/2), French Go. (1/2).
 ADDR.: B. P. 442, Tananarive. Cable: R. Madagascar. Te.: 2381. – L.P.: Dir.: R. Souchet. Asst. Dir.: R. Rabesahala. Dir. Tec.: R. L. Ruste. Dir. Nat. Net.: Razanamaholy. Dir. Nat. Net. II: G. Breton. Dir. News: J. Lacarrière, F. Rakotonaivo.

HOME SERVICE

National Network I (Malgache):

1502 kc/s 199.7 m 1 kW 7155 kc/s 41.92 m 4 kW
 3232 – 92.82 – 4 – 9696 – 30.94 – 4 –
 D. 03.30–05.30 (Sun. 04.00–05.28) on 1502/3232/7155 kc/s, 09.00–11.00 (Sat. 09.00–13.58, Sun. 05.28–13.58) on 1502/7155/9696 kc/s, 15.00–19.30 (Sat. 13.58–21.00, Sun. 13.58–19.30) on 1502/3232/7155 kc/s. – N., Wrp.: 03.30, 04.30, 09.30, 16.00, 18.30. – Franco-Malgache: Sun. 05.00–08.00.

National Network II (French):

1394 kc/s 215.2 m 1 kW 7260 kc/s 41.32 m 5 kW
 3288 – 91.24 – 4 – 9515 – 31.53 – 4 –
 D. 03.30–05.30 (Sun. 04.00–05.28) on 1394/3288/7260 kc/s, 09.00–11.00 (Sat. 09.00–13.58, Sun. 05.28–13.58) on 1394/7260/9515 kc/s, 15.00–19.30 (Sat. 13.58–21.00, Sun. 13.58–19.30) on 1394/3288/7260 kc/s. – N., Wrp.: 03.45, 04.45, 09.15, 16.30, 19.00. – Sport, Music: Sun. 13.45–17.00 on 1466/5835/7880 kc/s.

ANN.: "Ici Tananarive, Radiodiffusion de Madagascar Chaîne Nationale I (or Chaîne Nationale II)" and "Voici notre émission de la journée diffusée sur les longueurs suivantes...".
 INT.-SIG.: "O...Raketaka". – V, by QSL-card.



F.P.L.: New tr.'s in 1963.

★ MADEIRA ISLANDS (Portuguese) ★

L.T.: GMT+1 h. (Su. GMT). – Pr.L.: Portuguese. – Po.: 255.000. – E.C.: 220/380 V., A.C., 50 c/s.

EMISSORA NACIONAL see Portugal (Go.) RADIO CLUB DE MADEIRA (Pr.)

ADDR.: S. Martinho, Funchal.

HOME SCE.: CBS90 1484 kc/s 202 m 1 kW:

13.30–15.30, 20.00–02.00.

V, by QSL-card.

RADIODIFUSAO DE FUNCHAL (Pr.)

1594 kc/s 188.2 m 0.15 kW:

W.: 13.30–17.00, 21.00–02.00. Sun.: 11.30–13.30, 15.00–02.00.

★ MALI (Republic) ★

L.T.: GMT. – Pr. L.: French, Vernaculars. – Po.: 3.800.000. – Revrs.: 10.000. – E.C.: 115/200 V., A.C., 50 c/s.

RADIO MALI (Go.)

ADDR.: B. P. 171, Bamako. Cable: Radio Mali. Te.: 2474. L.P.: Dir.: M. Racine Kane.

HOME SERVICE in French, Bambara, Sonraie, Peul, Sarakolé, Quoloff & Tamachek: W. 06.00–08.00, 12.00–14.00, 18.00–23.30. Sun. 08.00–18.00, 18.30–23.30.

1430 kc/s 210.0 m 1 kW: as above.

7145 – 41.99 – 50 – : morning+evening.

4835 – 62.05 – 4 – : morning+evening.

9745 – 30.80 – 4 – : daytime.

N. in French: 07.00 (W), 09.00 (Sun.), 12.45, 20.15, 22.30.

N. in Vernaculars: D. 12.30, W. 18.45, 19.00, 19.15, 19.25, 19.35. – ANN.: F.: "Ici Bamako, Radio Mali, émettant sur...". – INT.-SIG.: African Music. – V, by letter.

★ MAURITANIA (Republic) ★

L.T.: GMT. – Pr.L.: French, Arabic, Maure, Sarakolé, Toucouleur. – Po.: 700.000. – Revrs.: 10.000. – E.C.: 110–125 V., A.C., 50 c/s.

RADIO MAURITANIE (Go.)

FL.: By state and SORAFOM. – ADDR.: Main St.: B. P. 200, Nouakchott. Te.: 64. Reg. St.: Aïoun el Atrous. – L.P.: Dir.: A. O. Sidya. Techn. Councillor: J. Chaminade.

HOME SERVICE: W. 07.00–08.00, 12.15–13.30, 19.55–23.45. Sun. 07.30–08.30, 12.15–13.30, 19.55–23.45.

1349 kc/s 222.4 m 1 kW: as above.

4855 – 61.79 – 4/30 – : 07.00–08.30, 19.55–23.45.

7245 – 41.41 – 4/30 – : 12.15–13.30.

N.: French: 13.15, 20.30, Arabic: 12.15, 22.00. Vernaculars: 07.11, 12.30, 13.00, 21.15, 21.45.

ANN.: F.: "Ici Radio-Mauritanie". – INT.-SIG.: Mauritanian guitar. – V, by letter. Re. in F, Arabic. – F.P.L.: Reg. st. in Aïoun el Atrous using 5055 kc/s 0.25 kW relaying Nouakchott (news only).

★ MAURITIUS (British) ★

L.T.: GMT+4 h. – Pr. L.: English, French, Hindustani, Chinese, Creole. – Po.: 651.963 (31. 3. 61.). – Revrs.: 42.049. – E.C.: 230 V., A.C., 50 c/s.

MAURITIUS BROADCASTING SERVICE (Go.)

ADDR.: Malherbes Transmitter Station, Curepipe. Cable: Broadcast. Te.: 507. – L.P.: Mgr.: L. C. de Chazal. Dir. Tec.: C. N. Standfield. Prgr. Org.: M. P. Harman.

HOME AND DEPENDENCIES: W. 03.00–04.15, 13.00–18.15, Sat. 03.00–04.15, 08.00–09.30, 13.00–18.15. Sun. 03.00–18.15.

683 kc/s 438 m 10 kW: as above.

3325 – 90.23 – 10 – : D. 13.00–18.15.

6101 – 49.17 – 10 – : W. 03.00–04.15, Sat. 03.00–04.15, 08.00–09.30. Sun. 03.00–13.00.

French/English: W. 03.00–04.15, 14.30–18.15, Sat. 14.30–18.00. Sun. 03.00–08.30. – French: Sun. 14.30–18.15. – Hindustani: W. 13.00–14.30. Sun. 07.30–14.30. – Prgrs. in various other languages: Sun. 08.30–09.15, Mo. 13.00–13.30, Tues., Thurs. 04.30–05.15. – N.: French: 03.30, 15.00, 17.30. English: 04.00, 18.00. Hindustani: 13.30. – Mbg. (for Mauritians Overseas): Sun. 06.30. – Wrp.: 15.10. – L.L.: English: Tues. 14.30–14.45.

ANN.: E.: "This is the Mauritius Broadcasting Service". F.: "Ici le M.B.S. poste de radiodiffusion de l'île Maurice". – V, by letter.

★ MOROCCO ★

L.T.: GMT. – Pr.L.: Arabic, French, Spanish, English, Berber. – Po.: 10.000 – Revrs.: 520.000 – E.C.: 110/220 V., A.C., 50 c/s.

RADIODIFFUSION MAROCAINE (Go.)

ADDR.: I, Zenkat Pierre Parent, Rabat. Cable: "Radio Maroc". – L.P.: Dir. Gen.: Si Moktar Ould Bah. Dir. Tec.: Si Abdelhak Benkirane.

HOME SERVICE

FIRST NETWORK: Arabic: W. exc. Fri.: 06.30–10.00, 12.00–15.00, 18.00–24.00. Fri.: 06.30–16.30, 18.00–24.00. Sun. 06.30–15.00, 18.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa-Aïoun	611	491	140	Rabat	917	327	1
Casablanca	818	367	1	Marrakech	1196	251	1
Oujda	593	506	1	Tétuan	827	363	20
Sebaa-Aïoun	7115	42.16	10				

SECOND NETWORK: French, Spanish, English.

W. 06.45–09.00, 12.00–15.00, 18.00–24.00. Sun. 07.30–24.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa-Aïoun	701	428	140	Oujda	1043	287	1
Casablanca	1187	253	1	Tanger	1016	295.5	1
Sebaa-Aïoun	7225	41.52	10				

French: W. 06.45–08.30, 12.30–14.00, 19.00–23.00. Sun. 07.20–10.00, 12.30–14.00, 16.00–18.00, 18.30–23.30.

Spanish: W. 08.30–09.00, 14.00–15.00, 23.00–24.00. Sun. 08.30–09.00, 10.00–12.00, 14.00–15.00, 23.00–24.00.

English: D. 12.00–12.30, 18.00–18.30.

THIRD NETWORK: Berber: D. exc. Sun. 12.00–13.30, 18.00–21.00.

Rabat 935 kc 321 m 27 kW. – Casablanca 1484 kc 202 m 0.5 kW, Tétuan 917 kc 327 m 5 kW.

FOREIGN SERVICE:

Arabic to South:

Sebaa-Aïoun 6190 kc 48.47 m 50 kW – 15345 kc 19.55 m 50 kW

9505 kc 31.55 m 50 kW.

On 15345 kc/s: 06.30–09.00, 12.00–15.00, 18.00–24.00.

Arabic special prgr. to East: Tangier 15430 kc/s 19.44 m 100 kW.

Arabic, French, English to South: Tangier 11735 kc 25.52 m 50 kW, 12.30–15.00 Arabic, 18.00–18.30, English, 18.30–20.30, French, 20.30–23.30 Arabic.

"VOICE OF MOROCCO": Tangier Béni Makada 1232 kc 243.5 m 50 kW.

Special prgr.'s: 07.00–08.30 French. – 08.30–10.00 Spanish – 10.00–16.00 Arabic – 18.00–18.30 English – 18.20–19.30 Spanish – 19.30–20.30 French – 20.30–24.00 Arabic.

Morocco - Mozambique

ANN.: F.: "Ici Rabat Radiodiffusion Marocaine. - E.: "This is the Moroccan Broadcasting System Rabat". - Sp.: "Aqui Radiodiffusion Marroqui". - Arabic & Berber: "Ici Rabat, Radiodiffusion du Royaume du Maroc". - V. by letter and QSL-card. - PUB.: Monthly magazine in Arabic.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR.: Voice of America, Washington 25, D.C., USA.

STATIONS: Radio 35/50/100 kW: 02.00-08.00, 12.00-23.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6080	49.34	9540	31.45	11825	25.37	17705	16.94
6115	49.06	9555	31.40	11875	25.26	17750	16.90
6120	49.02	9615	31.20	15205	19.74	17855	16.80
6170	48.62	9640	31.12	15235	19.69	21455	13.98
7125	42.11	9680	30.99	15290	19.62	21705	13.82
7135	42.05	9740	30.80	15330	19.57	25880	11.60
7160	41.90	9755	30.76	15365	19.52		
7270	41.27	11785	25.46	15385	19.50		

D.PRGR.: Short Wave: See USA.

ANN.: "This is the Voice of America Relay St. at Tangier". - INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card.

★ MOZAMBIQUE (Portuguese East Africa) ★

L.T.: GMT+2 h. - Pr. L.: Portuguese, English, French, Local dialects, Afrikaans. - Po.: 6.520.000. - Rcvrs.: 100.000. - E.C.: 220 V., A.C., 50 c/s.

RADIO CLUBE DE MOCAMBIQUE (Non-profit organization).

FI: By state, licenses, adv. - AD.: Allowed in Portuguese netw.: 04.45-06.15, 09.30-12.00, 15.45-18.30; in English netw. 03.30-21.00. - ADDR.: P. O. Box 594, Lourenço Marques. Cable: Radioclube. Te.: 4045. - L.P.: Dir. Gen.: Capt. António dos Santos Figueiredo. Mgr.: Capt. João Pinheiro. Chief. Tec.: V. Rodrigues. Chief Portuguese: Dr. J. Macedo. Chief English: D. Davies.

STATIONS: 100, 10, 7.5, 5 kW alternating. Call: CR7-.

PORTUGUESE NETWORK: W. 04.45-08.00, 10.30-11.00, 14.00-20.30. Sun. 05.45-12.00, 15.30 (or 13.00)-20.30.

BO	737	kc/s	407.0	m	10	kW:	as above.
—	3250	—	92.31	—	5	—	17.00-20.30.
BU	4924	—	60.92	—	7.5	—	15.30-20.30.
CC	9656	—	31.06	—	7.5	—	04.45 (Sun. 05.45)-12.00.
BG	15152	—	19.80	—	5/10	—	as above to 12.00, 15.30-18.00.

N.: 05.05 (W), 05.35 (Sun.), 10.30, 11.00, 17.45, 20.15. - Rel.: Sun. 07.00, 18.00. - Wrp.: 10.30, 16.30. - L.L. (English): Tues. 11.10, Fri. 16.00.

ANN.: On the h.: 4 notes on gong followed by "Aqui Rádio Moçambique, fala-vos o Rádio Clube em Lourenço Marques, trabalhando nas ondas...". - INT.-SIG.: Gong. - V. by QSL-card.

ENGLISH/AFRIKAANS NETWORK: Beamed to So. Af., Rhodesia, Nyasaland, Congo: 03.30 (Sun. 05.00)-22.00 (Sat. 23.00).

SR 917 kc/s 327.0 m 100 kW: 15.30-22.00 (Sat. 23.00).

BM 3221 - 93.13 - 7.5 - : 03.30-04.45, 17.00-21.00 (Sat. 22.00).

AB 3301 - 90.88 - 7.5 - : 20.00-21.00.

BV 4840 - 61.98 - 10 - : 03.30-06.00, 14.00-21.00 (Sat. 22.00).

— 4859 - 61.74 - 7.5 - : 20.00-21.00.

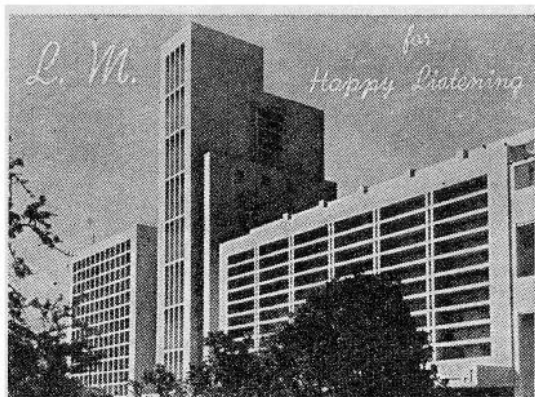
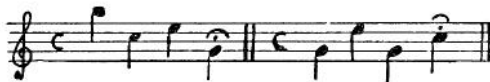
— 7254 - 41.35 - 7.5 - : 03.30-17.00.

DE 9620 - 31.19 - 7.5 - : 05.00-15.00.

— 11760 - 25.51 - 7.5 - : 05.00-16.00.

Request (Hospitals Hour): 07.00-08.45. - Rel.: D. 20.00-21.00 on 3301, 4859 kc/s.

ANN.: Every quarter-hour and half-hour 4 notes on gong followed by "Aqui Lourenço Marques, Radio Clube de Moçambique, trabalhando em ondas curtas e onda media". - "This is the Radio Club of Moçambique". - "Lourenço Marques for Happy Listening in the... meter bands". - INT.-SIG.: Gong. - V. by QSL-card. - PUB.: Monthly: Radio-Moçambique.



These are your

Lourenço Marques Radio

Wavebands for happy listening

1) 15.30-22.00	917 kc/s (327 m)
2) 03.30-04.45	
3) 17.00-21.00	3221 kc/s (93.13 m)
4) 20.00-21.00	3301 kc/s (90.88 m)
5) 03.30-06.00	
6) 14.00-21.00	4840 kc/s (61.98 m)
7) 20.00-21.00	4859 kc/s (61.74 m)
8) 03.30-17.00	7254 kc/s (41.35 m)
9) 05.00-15.00	9620 kc/s (31.18 m)
10) 05.00-16.00	11760 kc/s (25.51 m)

Transmitter 1 closes down at 23.00 Sat.

Transmitters 2 and 4 close down at 22.00 hours on Saturdays.

All times indicated are GMT.

NOTE: Subject to seasonal changes.

LOURENÇO MARQUES For Happy Listening

For full information see page 116.

FRENCH PRGR. on 15365 kc/s (CR7BG) Tues. & Fri. 18.00-19.00 for C. Africa & Congo.

NATIVE NETWORK: Sun. 06.30-09.00. Sun. & Thurs.: 16.00-19.00 - 1223 kc/s 245.0 m 1 kW as above.

CA 3406 - 88.07 - 5 - Sun., Thurs. 16.00-19.00.

- 4859 - 61.74 - 7.5 - Sun., Thurs. 16.00-19.00.

- 7238 - 41.44 - 5 - Sun. 06.30-09.00.

BRANCH STATIONS: 0.25 kW.

Nampula: Portuguese: W. 10.30-11.30, Sun. 07.00-09.30 on 1223 kc (245 m), 9525 kc (31.50 m). - D. 16.30-19.30 on CR7XD 4855 kc 61.79 m. - **Native Dialects:** Sun. 16.00-19.00 on 5100 kc/s 58.82 m.

Quelimane: Portuguese: W. 10.15-12.00, Sun. 08.00-12.00, 14.00-15.00 on 935 kc (321 m), 9621 kc/s. - D. 16.30-19.00 on 935 kc (321 m), 4775 kc (62.83 m).

Porto Amelia: Portuguese: D. 10.30-12.00 on 1421 kc (211 m), 9586 kc (31.30 m). - D. 16.30-19.00 on 1421 kc (211 m), 4895 kc (61.29 m).

EMISSIONA DO AERO CLUBE DA BEIRA (Priv., Comm.)

FL: By adv. - ADDR.: C.P. no. 3, Beira. Cable: Aero. Te.: 2505. L.P.: Dir.: F. J. Silvério Moiteira. Asst.: M. Costa.

HOME SERVICE in Portuguese:

1430 kc/s 210.0 m 5 kW } W. 04.30-06.00, 09.30-11.30 (Sat. 3255 - 92.15 - 0.3 - 12.00), 16.00-20.30, Sun. 06.00-08.00, 6285 - 47.74 - 0.3 - 09.00-12.00, 15.30-20.30.

ANN.: "Aquí Portugal Radio-Moçambique-fala-vos a Emissora do Aéro Clube da Beira". - INT.-SIG.: Chimes. - V. by QSL-card.

RADIO PAX (Rel. Owned by Franciscan Fathers)

FL: By licenses and state. - ADDR.: C.P. 594, Beira. Cable: Radio Pax. Te.: 2763. - L.P.: Dir. Gen. P. E. Costa. Dir. Tec.: C. A. S. Roca.

HOME SERVICE in Portuguese: W. 16.30-19.30. Sun. 05.45-07.00, 09.30-11.30, 16.00-19.30. - N.: 17.45.

CR7RA 3952 kc/s 75.91 m 5kW. - CR7RB 7205 kc/s 41.64 m 0.5 kW.

ANN.: "Aquí Portugal, Moçambique, Fala-vos a Emissora Católica Rádio Pax, na Beira". - INT.-SIG.: Chimes. Prgr.s open with a religious choir. V. by letter. - F.P.L.: Increase power to 10 kW.



★ NIGER (Republic) ★

L.T.: GMT+1 h. - Pr.L.: French, Hausa, Djerma, Tamachek, Peulh. Béríberi, English - Po.: 2.425.000. - Rvrs.: 10.000. - E.C.: 220/400 V., A.C., 50 c/s.

RADIO-NIGER (Go.)

ADDR.: B. P. 361, Niamey. Cable: Radioniger. Te.: 320. - L.P.: Dir.: B. Lucas. Asst. Dir.: G. Sidikoni.

HOME SERVICE: W. 05.30-06.30, 11.30-13.15, 17.00-21.00 (Sat. 22.00). Sun. 07.00-21.00.

Network I:

1511 kc/s 198.4 m 1 kW: as above

4785 - 62.70 - 4 - : 05.30-06.30, 17.00-21.00 (Sat. 22.00)

7105 - 42.22 - 4 - : 11.30-13.15. Sun. 07.00-17.00.

Network II:

5020 kc/s 59.76 m 4 kW: 05.30-06.30, 17.00-21.00 (Sat. 22.00)

9710 - 30.90 - 4 - : 11.30-13.15. Sun. 07.00-17.00.

N. in French (on both networks): 06.00, 12.00, 13.00, 17.00, 18.45, 20.55, Sat. 21.55. - Folklore Music: 05.35, 12.15, 17.50, 20.00. - N. in Vernaculars: 12.15, 20.05 (Djerma on netw. I, Hausa on netw. II); 17.55, 18.10 (Peulh, Tamachek on netw. I, Hausa, Béríberi on netw. II).

ANN.: At opening and close down: "La Nigérienne" Local flute and "Ici Niamey Radiodiffusion de la République du Niger". - INT.-SIG.: Local Flute. - V. by QSL-card. R. p.



★ NIGERIA (Federation of) ★

L.T.: GMT+1 h. - Pr.L.: English, Yoruba, Hausa, Ibo. - Po.: 39.000.000. - Rvrs.: 200.000. - E.C.: 230 V., A.C., 50 c/s.

THE NIGERIAN BROADCASTING CORPORATION (Statutory Corp.)

FL: By state. From 1/11 60 R. Nigeria started to operate on a limited comm. basis. - AD.: 7 times per day, at 05.45, 06.24, 11.30, 12.15, 14.15, 17.45, 18.15.

ADDR.: Broadcasting House, Lagos. **Cable:** Broadcasts. **Te.:** 26411. **L.P.:** Dir. Gen.: E. Mackay. Chief Eng.: E. C. Credgington. Dir. Adm.: H. N. Osakwe. Dir. Prgr.: E. V. Badejo. Chief Accountant: H. L. Westgarth. Dir. News, Current Affairs: K. Fairfax. Secr.: O. Fashina.

NATIONAL PRGR. (from Lagos):

1458 kc/s 206 m 5 kW: W. 05.00-08.00, 09.30-22.30 (Sat. 23.00), Sun. 06.00-22.00. - 4990 kc/s 60.12 m 20 kW: W. 05.00-07.00, 14.00-22.30 (Sat. 23.00), Sun. 06.00-08.00, 17.30-22.00. - 9535 kc/s 31.46 m 20 kW: W. 06.00-08.00, 09.30-17.30. Sun. 06.00-17.30.

N.: **English:** Local: Sun. 12.00, 18.00, Mo., Thurs. & Sat.: 05.30, 12.00, 14.00, 18.00, 21.00. Fri.: 05.30, 12.30, 14.00, 18.00, 21.00. - BBC relay: D. 06.00, 20.00. - Comm.: D. 06.09, 20.09.

WEST REG. PRGR. (from Ibadan):

1358 kc/s 221 m 10 kW: as Lagos 1458 kc/s.

1397¹⁾ - 214 - : as Lagos 1458 kc/s

3204 - 93.64 - 5 - : W. 05.00-07.00, 16.45-22.30 (Sat. 23.00), Sun. 06.00-07.00, 16.45-22.00. - 7285 kc/s 41.18 m 5 kW: W. 07.15-08.00, 09.30-16.30. Sun. 07.15-16.30.

EAST REG. PRGR. (from Enugu):

1320 kc/s 227 m 10 kW: as Lagos 1458 kc/s.

1397²⁾ - 214 - : as Lagos 1458 kc/s.

3980 - 75.38 - 5 - : W. 05.00-07.00, 16.45-22.30 (Sat. 23.00), Sun. 06.00-07.00, 16.45 22.00. - 6145 kc/s 48.82 m 5 kW: W. 07.15-08.00, 09.30-16.30. Sun. 07.15-16.30.

NORTH REG. PRGR. (from Kaduna):

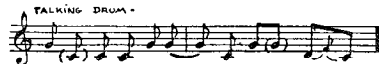
1416 kc/s 212 m 1 kW } W. 05.10-08.00, 09.30-22.15 (Sat. 1376³⁾ - 218 - 23.15). Sun. 05.10-22.15.

1397⁴⁾ - 214 - : D. 05.10-06.45 (7.5 kW); 16.45-22.15 (Sat. 23.15) (20 kW). Sun. 05.10-06.30, 16.45-22.45 - 6175 kc/s 48.58 m 20 kW: W. 06.45-08.00, 09.30-16.30. Sun. 06.30-16.30 - 9655 kc/s 31.07 m 5 kW: D. 09.30 16.30 - 3396 kc/s 88.36 m 5 kW: D. 16.45-22.00.

¹⁾ Wari and Ijebu-Ode. ²⁾ Onitsha, Calabar and Port Harcourt.

³⁾ Kano. ⁴⁾ Jos, Sokoto, Ilorin, Maiduguri, Zaria, Katsina.

ANN.: "This is the Nigerian Broadcasting Corporation" or "This is Radio Nigeria". - INT.-SIG.: National prgr.: Talking Drum.



North Regional Programme: Trumpet-Type Instrument.



West Regional Programme: Talking Drum.



East Regional Programme: Snake Drum-Xylophone Bass.



V. by QSL-card. Re. will be welcomed by: The Chief Engineer - PUB.: Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on a subscription basis. F.P.L.: F.M service before the end of 1961 using 1 kW tr's in the 93-96 mc/s band. External Broadcasting by the end of 1962 using 100 kW tr's

WESTERN NIGERIA RADIOVISION SERVICE LTD.

(Comm.)

FL: 50% from We. Reg. Go. of Nigeria, 50% from Overseas Rediffusion Ltd., London. - AD.: D. 6 min. each h. - ADDR.: Television House, P.O. Box 1460, Ibadan. Cable: Radvision. Te.: 24381.

Nigeria - Senegal

L.P.: Joint Man. Dir.s: G. W. Philips and L.O. Ibukun. Chief Eng.: G. A. Goodhew, B. Sc. Contr. of Prgr.s: G. Blackledge.
HOME SERVICE in English: W. 05.00-23.00 (Sat. 23.05), Sun. 06.00-22.05.

Abafon 602 kc/s 498 m 10 kW Ibadan 6185 kc/s 48.50 m 10 kW Ibadan 656 - 457 - 10 - Ibadan FM 91 mc/s 0.05 kW N.: 05.30 (W), 06.00 (W), 07.00*, 07.10, 12.00, 13.00*, 17.00, 18.00* 20.00, 22.00 (Sun.), 22.55 (W), * BBC.

ANN.: "This is the Western Nigeria Broadcasting Service" or This is WNBS, Ibadan". - V. by QSL-card or letter. Reception Reports will be welcomed by the Chief Eng.

EASTERN NIGERIA BROADCASTING LIMITED (Comm.)

ADDR.: P.O. Box 350, Enugu. - Cable: Easteller. - L.P.: Gen. Mgr.: P. Proudman. - HOME SCE. in English: 953 kc/s 314.6 m 10 kW - 4855 kc/s 61.79 m 10 kW: W. 05.00-08.00, 10.00-14.30, 15.30-22.30. Sun. 06.00-22.30. N.: 06.00(W), 07.00(Sun.), 11.00, 13.00, 17.00, 18.00, 20.00, 21.00, 22.25(exc. Sat.).

ANN.: "ENBS - Second to None". - V. by letter.

★ REUNION (French) ★

L.T.: GMT+4 h. - Pr.L.: French. - Po.: 360.000. - Rvrs.: 17.000. - E.C.: 220/310 V., A.C., 50 c/s.

RADIO REUNION (R. diff. Télévision Française)

ADDR.: B.P. 309, St. Denis, La Réunion. Te.: 868. L.P.: Chef des Services: B. Guyot. Dir. Tec.: H. Pottier. Dir. of Inf.: J. V. Dolor. HOME SERVICE in French:

W. 02.30-03.45, 08.00-19.30. Sun. 04.00-18.00.
3380 kc/s 88.76 m 1.5 kW: 16.15-19.30. Sun. 17.00-18.00
4820 - 62.24 - 1.5 - : 02.30-03.45, 08.00-16.15. Sun. 04.00-17.00

N.: W.: 02.30, 03.30, 08.30, 14.07, 16.00. Sun.: 04.15, 08.30, 16.45. - Wrp.: W.: 03.30, 14.15, 16.30. Sun.: 04.15, 14.00, 16.45.

ANN.: "Ici la Réunion, Radiodiffusion Télévision Française". - INT.-SIG.: "Madina" (Reunion Folklore). V. by letter. R.p.



★ RHODESIA AND NYASALAND ★

L.T.: GMT+2 h. - Pr.L.: English, African Vernaculars. - Po.: £.400.000. - Rvrs.: 200.000. - E.C.: 220/380 V., A.C., 50 c/s.

THE FEDERAL BROADCASTING CORPORATION OF RHODESIA & NYASALAND (Indep. statutory body, established by Federal Act of Parliament).

FL: By State, license payments and adv. - AD.: Max. 10 min. per h. and 15 % of total daily tr. hours. - ADDR.: Northern House, Baker Avenue, P.O. Box 2696, Salisbury, So. Rhodesia. Cable: Broadcasts. Te.: 25685. - L.P.: Chairman of Board: The Hon. Sir R. Hudson. Dir. Gen.: J. McClurg. Deputy Dir. Gen.: C. K. Grierson-Rickford. Contr. Gen. Sec.: J. H. Parry, O. B. E. Contr. African Sec.: C. Sapseid. Dir. Tec.: J. M. Reeves, M.I.E.E., M.I.R.E.

GENERAL AND COMMERCIAL SERVICES:

	kc/s	m	kW		kc/s	m	kW
Salisbury	584	514	2	Kitwe	584	547	20
Bulawayo	611	491	2	Lusaka	962	312	2
Que Que	746	402	0.175	Umtali	980	306	2
Gatooma	791	379	2	Gwelo	1043	288	2

Short Waves:

Salisbury	3396	88.36	10	Salisbury	6020	49.83	10
Lusaka	3346	89.60	20	Lusaka	7285	41.18	10
-	4911	61.08	10				

General Sec.: W.: 10.00-12.00, 15.00 (Sat. 14.00)-20.00. Sun. 06.00-12.00, 15.00-20.00.

3346 kc/s: D. 19.15-20.00, 3396 kc/s: 15.00 (Sat. 16.15)-20.00. 4911 kc/s: 15.00 (Sat. 14.00)-20.00. 6020 kc/s: Mo.- Fri. 10.00-12.00. Sat. 14.00-16.15. Sun. 06.00-12.00. 7285 kc/s: W. 10.00-12.00. Sun. 06.00-12.00.

Commercial Sec.: W.: 04.00-10.00, 20.00-21.05 (Sat. 22.00), 3346 kc/s: W. 20.00-21.05 (Sat. 22.00), 3396/4911 kc/s: W. 04.00-05.45, 20.00-21.05 (Sat. 22.00), 6020/7285 kc/s: W. 05.45-10.00. N.: 05.00, 06.00, 10.10, 11.00, 11.15, 18.00, 21.00. - Wrp.: 04.00, 05.10, 11.20, 15.58, 17.55.

AFRICAN SERVICE:

A + B Prgr.: No. Rhodesia. C Prgr.: So Rhodesia. N Prgr.: Nyasaland "A" Prgr.: W. 04.00-06.10, 10.00-19.00. Sun. 11.00-19.00. - "B" Prgr.: D. 14.00-19.00. - "C" Prgr.: W. 04.00-06.10, D. 10.00 (Sun. 11.00)-19.00. - "N" Prgr.: D. 16.00-19.00.

STATIONS

	kc/s	m	kW	
Salisbury	890	337.0	2	"C" as above.
Gwelo	4965	60.42	10	"C" JW. 04.00-06.10. D. 10.00 (Sun. 11.00)-15.45, 15.50-19.00.
Gwelo	9735	30.82	10	"C" [11.00]-15.45, 15.50-19.00.
Lusaka	1376	218.0	2	"A" as above.
Lusaka	3295	91.00	15	"B" as above
Lusaka	3346	89.60	20	"A" W. 04.00-06.10, 16.00-19.00.
Lusaka	4828	62.12	2.5	"A" W. 04.00-06.10, 14.45-19.00.
Lusaka	7220	41.55	20	"A" D. 10.00-15.45.
Lusaka	9570	31.35	2.5	"A" D. 10.00-14.30.
Zomba	3955	75.80	10	"N" as above.

"A" Prgr.: English & Vernaculars (Chibemba, Chishona, Chinyanja, Silozi, Sindebele, Chitonga, Chilunda, Luvale). English: W. 04.00-06.10, 18.00-19.00. - N.: 05.00, 06.00, 10.10, 11.00, 16.00, 18.00. - Wrp.: 17.55.

"B" Prgr.: No. Rhodesia Vernaculars only: 14.00-19.00 on 3295 kc/s. "C" Prgr.: English & So. Rhodesia Vernaculars (Chishona, Sindebele). "N" Prgr.: English & Nyasaland Vernaculars (Chinyanja, Chitumbuka): English: 18.00-19.00.

ANN.: General/Comm. Sec.'s: "This is the Federal Broadcasting Corporation of Rhodesia & Nyasaland".

African Service: "1" "This is the Federal Broadcasting Corporation of Rhodesia & Nyasaland" - "2" (Lusaka) "Kuno ndi FBC ku Lusaka" ("A" & "B") - "3" ("C" Prgr.) "Leyi Southern Region yi FBC African Service". - "Ino i Southern Region ye FBC African Service". - "4" ("N" Prgr.) "Kuno ndi FBC ku Blantyre Nyasaland. - INT.-SIG.: African Sec.: Kalimba Xylophone, Drums. - V.: Listeners reports within the Federation required.

★ RUANDA-URUNDI ★ (Belgian Trusteeship Territory)

L.T.: GMT+2 h. - Po.: 4.700.000. - Rvrs.: 50.000. - E.C.: 220 V., A.C., 50 c/s.

RADIO USUMBURA (Go.)

ADDR.: B. P. 1400, Usumbura. Cable: Radiodiffusion. Te.: 2236. L.P.: Dir. of Inf.: P. Chotteau. St. Dir.: H. van Molle. Dir. Tec.: F. Dillen.

HOME SERVICE: 6195 kc/s 48.43 m 10 kW: 04.30-05.30, 10.00-11.30 (Sun. 07.00-11.30), 18.00-20.45.

N.: French: 05.00*, 10.15, 10.30*, 18.00, 20.00* (*relay Brussels). ANN.: French: "Ici Usumbura, station de radiodiffusion du Ruanda-Urundi, émettant dans la bande de 48 m, soit sur 6195 kc/s". - INT.-SIG.: Umutudi (native wooden instrument). - V. by letter. Re. in E, F, D, G, Afrikaans. - PUB.: Bulletin free on request to: Govt. of Ruanda-Urundi, B. P. 480, Usumbura.

RADIO BURUNDI (Go.)

ADDR.: B. P. 1900, Usumbura. Te.: 3290. - L.P.: Dir. of Broadc.: B. Melchior. Tec. Dept.: R. De Jonghe.

HOME SCE. in Kirundi, French: 15.00-18.00 on 6195 kc/s 48.43 m 10 kW. N. in Kirundi: D. 17.00. - L.L.: (French) Mo. 16.10. ANN.: "R. Burundi, station de radiodiffusion du Burundi".

RADIO RWANDA (Go.)

ADDR.: B.P. 83, Kigali. - L.P.: Dir. Gen.: B. René. HOME SCE. in Kinyarwanda & French: 6050 kc/s 49.59 m 5.6 kW: 09.30-11.30, 15.30-20.30. - N. in French: 10.15, 18.00. N. in Kinyarwanda: 09.45, 10.45, 17.00. - ANN.: F.: "Vous êtes à l'écoute de R. Rwanda". - V. by QSL-card. Prgr.schedule free on request.

★ SAO TOMÉ E PRINCEPE (Port W.Africa) ★

L.T.: GMT. - Pr.L.: Portuguese. - Po.: 62.000. - Rvrs.: 8.400.

R. CLUBE DE SAO TOMÉ (Comm.)

ADDR.: Av. Infante D. Henrique, São Tomé. - L.P.: Pres.: A. Barbosa Lobo. - HOME SCE.: CR55C 4807 kc/s 62.41 m 1 kW: 19.00-21.30. - V. by QSL-folder.

★ SENEGAL (Republic) ★

L.T.: GMT. - Pr.L.: French, Vernaculars: Peulh, Ouolof, Sérère, Diola, Toucouleur, Manding. - Po.: 2.232.500. - Rvrs.: 125.000. - E.C.: 127/220 V., A.C., 50 c/s.

RADIODIFFUSION DU SENEGAL (Go.)

ADDR.: B. P. 1765, Dakar. Cable: Radio Senegal. Te.: Standard 320.72. - L.P.: Dir. Adm.: M. Diokhane.

HOME SERVICE:

NATIONAL NETW.: W. 06.30-08.00, 12.00-14.00, 18.15-23.30. Sat. 06.30-08.00, 12.00-23.30. Sun. 08.15-23.30.

1538 kc/s 196 m 10 kW: as above
4950 - 60.60 - 25 - : 06.30-08.00, 18.15-23.30
7210 - 41.61 - 25 - : 08.00-18.00
11895 - 25.22 - 100 - : as above
15115 - 19.85 - 100 - : 17.45-18.00.

N.: French: W.: 06.30, 07.15, 07.55, 12.35, 13.00, 13.55, 20.00, 22.30, 23.25. Sun.: 08.30, 13.00, 20.00, 22.30. - Arabic: 18.15 - Portuguese: 18.20 - English: 13.15, 20.15.

REGIONAL NETW.: W.: 06.30-08.00, 12.30-14.00, 17.30-23.00. Sat. 06.30-08.00, 12.30-24.00. Sun.: 08.00-23.30.

1304 kc/s 230 m 8 kW: as above
4893 - 60.32 - 4 - : 06.30-08.00, 19.00-24.00
7170 - 41.84 - 4 - : 08.00-19.00

Ziguinchor 3336 kc/s 89.90 m 4 kW - 6070 kc/s 49.42 4 kW.

N.: French: W.: 07.10, 13.00, 20.00, 22.30. Sun.: 08.45, 20.00, 22.30. - Vernaculars: 06.50, 13.15, 17.35, 18.15, 18.35, 18.50, 19.15. Sun.: 08.30, 13.15.

FOREIGN SERVICE to Europe:

15115 kc/s 19.85 m 100 kW: Thurs., Fri.: 17.45-18.00.

ANN.: F.: "Ici Radio Sénégal, Chaîne Nationale émettant de Dakar dans la bande des..." or "Ici R. Sénégal, Chaîne Régionale émettant de Dakar dans la bande des...". Foreign Sec.: "Ici Dakar - service spécial". - INT.-SIG.: Tam-Tam. - V. by QSL-card. Rp. - PUB.: Prgr. sched. free on request. Rp.

★ SEYCHELLES (British) ★

L.T.: GMT+4 h. - Pr.L.: English, French, Creole. - Po.: 41.468. - Rcvrs.: 1000. - E.C.: 220 V., A.C.

SEYCHELLES BROADCASTING SERVICE (Go.)

FL.: By Go. and U.K. Colonial Development and Welfare Funds.

ADDR.: Dept. of Tourism & Inf., Victoria.

L.P.: Dir.: G. F. Jarratt. Dir. Tec.: B. Ward.

HOME SERVICE: ZCQ3 4990 kc/s 60.12 m 1 kW: D. 14.15-16.15. V. by letter.

★ SIERRA LEONE ★

L.T.: GMT. - Pr.L.: English, Mende, Temne, Krio. - Po.: 3.000.000. - Rcvrs.: 50.000. - E.C.: 230 V., A.C., 50 c/s.

SIERRA LEONE BROADCASTING SERVICE (Go.)

FL.: By state, license payments and adv. - AD.: Partially in the Relay Sec. only. Comm. adv. inevitable. - ADDR.: New England, Freetown, Sierra Leone. Cable: Broadcasts. Te.: 3051-9. - L.P.: Dir. of Broadcast: J. J. Akar. Head of Prgr. Training: J. Lawton. Chief Eng.: A. H. Khanu.

HOME SERVICE: 06.00-08.00, 15.45-23.00 on 3316 kc/s 90.46 m 5 kW. N.: English: BBC: 07.00, 20.00. Local: 06.55, 20.10. Vernaculars: 06.45, 18.00. African Music: Wed. 18.30, Fri. 21.30, Sat. 18.45. - ANN.: "This is the Sierra Leone Broadcasting Service". - INT.-SIG.: "The rain is coming" played by Military Band. - V. by letter. - F.P.L.: Early 1962 10 kW tr. on 1200 kc/s and 3316 kc/s and increase of broadcast. to 08.00-23.00. Also s.w. on 5980 kc/s.

★ SOMALI REPUBLIC ★

L.T.: GMT+3 h. - Pr.L.: Somali, Italian, Arabic, English. - Po.: 2.150.000. - Rcvrs.: 24.000. - E.C.: 250 V., D.C., 50 c/s.

NATIONAL BROADCASTING STATION (Go.)

ADDR.: Radio Mogadiscio, Mogadiscio.

HOME SERVICE in Somali, Italian, Arabic:

4970 kc/s 60.36 m 0.25 kW - 7150 kc/s 41.96 m 5 kW.

09.30-11.00, 13.00-15.30, 16.30-19.00. ANN.: Italian: "Transmette Mogadiscio".

RADIO SOMALI (Go.)

ADDR.: P.O. Box 14, Hargeisa, Northern Region. Cable: Informat. - L.P.: Minister of Inf.: A. M. Hirabe.

HOME SCE.: 4797 kc/s 62.54 m 5 kW - 9667 kc/s 31.04 m 1 kW D.PRGR.: D. 13.30-17.30. Somali: 13.30-15.30, 16.30-17.30. N.: 14.15, 17.00. Mbg.: Sun. 15.45. - English: 15.30-16.30. N.: 16.00.

ANN.: "Halkan Waa Hargeisa. Radio Somali" (This is Hargeisa, Radio Somali). - INT.-SIG.: March. - V.: Reports sought only from Somali-speaking audience, but all reports acknowledge by photographic QSL. - F.P.L.: 10 kW s.w. tr.

BBC - EAST AFRICAN RELAY: Relays BBC Arabic Sce., G. O. S. & to E. Africa (Swahili) on 701 kc/s.

The Horn of Africa, Ea. Africa } Arabic Sce.: 03.45-05.45, 11.00-15.45, 16.15-21.00; G. O. S.: 05.45-07.25, 09.15-09.45; Swahili: 10.00-10.15, 15.45-16.15.

★ SOMALILAND (French) ★

L.T.: GMT+3 h. - Pr.L.: French, Somali, Afar, Arabic, English, Amharic. - Po.: 75.000. - Rcvrs.: 8.000. - E.C.: 220 V., D.C.

RADIO-DJIBOUTI (Radiodiffusion Télévision Française)

ADDR.: B. P. 97, Djibouti. Cable: Radiodiffusion. Te.: 177. L.P.: Dir.: P. Farinès. Engineer: L. Sébastien.

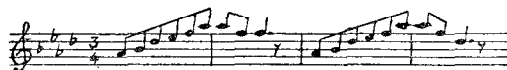
HOME SERVICE: 03.30-05.00, 09.00-10.00, 14.30-20.00.

1538 kc/s 195.0 m 4 kW: as above.
4780 - 62.76 - 4 - : 03.30-05.00, 14.30-20.00.
6000 - 50.00 - 4 - : 09.00-10.00.

French: 04.00-04.30, 09.00-09.35, 17.00-19.00. - N.: 04.15, 09.15, 17.15. - Wrp.: 09.35, 17.30. - Vernaculars: 03.30-04.00, 09.35-10.00, 14.30-17.00. N. in Somali: 03.40, 09.35, 15.00. N. in Afar: 03.54, 09.47, 16.00. - Arabic: 04.30-05.00, 16.30-17.00, 19.00-20.00. N.: 04.35, 09.54, 16.30, 20.00.

ANN.: "Ici Djibouti, Radiodiffusion-Télévision Française".

INT.-SIG.: Extrait d'une mélodie somalie. - V. by letter. R. p.



★ SOUTH AFRICA (Republic) ★

L.T.: GMT+2 h. - Pr.L.: English, Afrikaans. - Po.: 14.200.000. - Rcvrs.: 986.050. - E.C.: 220/380 V., A.C., 50 c/s.

S. AFRICAN BROADCASTING CORPORATION (Indep. Org.)

FL.: By license payments and adv.

ADDR.: P. O. Box 8606, Johannesburg. Cable: Broadcast. Te.: 231151.

L.P.: Chairman: Dr. P. J. Mayer. Vice-Chairman: Dr. W. J. de Kock.

Senior Dir.: N. L. Filmer. Dir. of Comm. & External Sec.'s & Legal

Adviser: J. P. A. van der Walt. Dir. Prgr.: C. D. Fuchs. Dir. Finance:

J. N. Swanepoel. Chief Eng.: H. O. Collett. Chief Accountant: R.

C. Strike. Head of Afrikaans Sec.: M. M. van Lillie. Head of English

Sec.: H. J. Howell. Head of News Sec.: G. J. Fourie. Head of

Planning & Development: P. S. Louw. Head of Comm. Sec.: W.

S. P. Hanekom. Head of Secretarial Dept. G. A. de Bruyn.

HOME SERVICES:

National Medium-Wave Stations:

	ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
Johannesburg:			
West Rand	638 kc 470 m	719 kc 417 m	575 kc 522 m
East Rand	1034 kc 290 m	827 kc 363 m	1286 kc 233 m
Pretoria	1439 kc 208 m	1097 kc 273 m	1268 kc 236 m
Bloemfontein	674 kc 445 m	593 kc 506 m	782 kc 384 m
Kimberley	1070 kc 280 m	1241 kc 242 m	962 kc 312 m
Grahamstown	620 kc 484 m	701 kc 428 m	809 kc 371 m
Port Elizabeth	1313 kc 228 m	1043 kc 288 m	1178 kc 255 m
East London	1025 kc 293 m	1151 kc 261 m	908 kc 330 m
Cape Town	656 kc 457 m	557 kc 539 m	728 kc 412 m
Durban	566 kc 530 m	692 kc 433 m	800 kc 375 m
Pietermaritzburg	764 kc 392 m	665 kc 451 m	845 kc 355 m
Pietersburg	1115 kc 269 m	863 kc 348 m	989 kc 303 m

D.PRGR.: English and Afrikaans Services: D. 03.30-21.15 (incl. Bantu Prgr.'s W. 03.30-04.30, 07.30-08.00). - N. in English: 05.00, 06.00, 09.00, 11.15, 16.00, 17.15, 19.00, 21.00. - N. in Afrikaans: 04.45, 06.00, 09.00, 11.15, 14.00, 16.00, 17.00, 19.00, 21.00.

D.PRGR.: Commercial Service (Springbok Radio):

W.: 03.00-22.00. Sun.: 05.00-21.00. (Remains on the air from Fri 03.00 until Sat. 22.00).

National Shortwave Stations (Paradys):

ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
3316 kc/s 90.47 m	3376 kc/s 88.89 m	3356 kc/s 89.42 m
4810 kc/s 62.37 m	4895 kc/s 61.29 m	4945 kc/s 60.67 m
6005 kc/s 49.96 m	6095 kc/s 49.22 m	6150 kc/s 48.78 m
7230 kc/s 41.49 m	7275 kc/s 41.24 m	7185 kc/s 41.76 m
9650 kc/s 31.09 m	9525 kc/s 31.50 m	9720 kc/s 30.86 m

Shortwave schedules for the Home Service are determined by ionospheric conditions. The table below gives the approximate times of use for the various wavebands:

03.00-05.30 90, 60	07.30-10.30 41, 31,	16.45-22.00 90, 60
05.30-06.30 60, 41	10.30-15.00 41, 31	22.00-03.00 90
06.30-07.30 60, 41, 31	15.00-16.45 60, 41	

AFRICA SERVICE:

(International St. at Paradys near Bloemfontein)

11815 kc/s 25.39 m 17.30-20.00 15085 kc/s 19.89 m: 15.45-20.00

11900 kc/s 25.21 m 11.00-17.30 21690 kc/s 13.83 m: 11.00-15.45

N. in French: Mo. - Fri. 16.05-16.10.

English: Tues., Thurs., Sat. - Afrikaans: Mo., Wed., Fri.

South Africa – Uganda

ANN.: E.: "This is R. South Africa" or "This is the English Prgr. of R. South Africa". Afrikaans: "Dit is R. Suid Afrika".
INT.-SIG.: Afrikaans Sec. 04.28: "Vër in die Wêreld Kittie" (Folk-song). Comm. Sec. (02.57): First three notes of "Pak jou goed en trek Ferreira". – V. by QSL-card for all Services. – PUB.: "SABC Radio Bulletin".

★ SUDAN ★

L.T.: GMT+2 h. – Pr.L.: Arabic, English. – Po.: 11.000.000. – Rcvrs.: 11.000. – E.C.: 115/200 V., A.C., 50 c/s.

SUDAN BROADCASTING SERVICE (Go.)

ADDR.: P. O. Box 572, Omdurman. Cable: Izaa. – L.P.: Senior Controller Broadcast. Major El Tag Hamad.

HOME SERVICE:

575 kc/s 521.7 m	50 kW	9600	– 31.25	– 7.5 kW
5039	– 59.53	– 20	–	11750
7200	– 41.67	– 20	–	

Arabic: D. 04.15–11.30, 12.30–13.00, 14.00–15.00 on 575/5039/9600/11750 kc/s, 15.00–21.00 on 575/5039/7200/9600 kc/s. – Local Prgr. for So. Sudan: D. 13.00–14.00 on 575/5039/9600/11750 kc/s. – European Prgr. (English): D. 11.30–12.30 on 575/5039/9600/11750 kc/s.

ANN.: Arabic: "Huna Omdurman". English: "This is the Sudan Broadcasting Service". – V. by letter.

★ TANGANYIKA ★

L.T.: GMT+3 h. – Pr.L.: English, Kiswahili, Gujarati, Hindustani. – Po.: 9.076.800. – Rcvrs.: 72.232. – E.C.: 240 V., A.C., 50 c/s.

TANGANYIKA BROADCASTING CORP. (Indep.-Comm.)

FI.: Grant aided by Go. and additional revenue from Licenses and comm. adv. – AD.: Swahili and English spot channels daily together with sponsored prgr.s in both languages.

ADDR.: Broadcasting House, Box 9191, Dar es Salaam. Cable: Sauti. Te.: 63342. – L.P.: Dir.: T.W. Chalmers, C.B.E., B.Sc. Dir. Prgr.: M. B. Mdoe, Dir. Adm.: T. Griffith-Jones, Dir. Tec.: R.A. Muir, A.M.I. E.E. News Editor: I. Savidge. Nat. Prgr. Org.: P. Sozigwa, B.A. Second Prgr. Org.: Post Vacant.

HOME SERVICE:

National Prgr. (Kiswahili):

1250 kc/s 240.0 m	1.3 kW	} 03.00–05.00, 09.00–10.45, 15.30–19.15 (Sat. 19.30). N.: 03.30 (BBC), 04.00, 15.45 (BBC), 17.00. – Wrp.: 17.00.
5050	– 59.41	
7165	– 41.87	

2nd Prgr. (English & Asian):

1025 kc/s 292.7 m	1.3 kW	} English: 09.00–11.00, 16.00–19.15. N.: 04.10, 09.15 (BBC), 16.00 (BBC), 16.15 (*Wrp.), 18.10. – Gujarati or Hindustani: D. 15.30–16.00.
4785	– 62.70	
7280	– 41.21	

Third Prgr.: A Third Prgr. will commence by the end of 1961.

School Prgr. on 1250, 7165, 9530 (31.48 m 5 kW) kc/s: Mo.–Fri. 08.00–09.00, 12.00–12.45, Sat. 06.00–07.00 (During School Terms). – INT.-SIG.:



★ TCHAD (Rep.) ★

L.T.: GMT+1 h. – Pr.L.: French, Arabic, Sara. – Po.: 2.580.000. – Rcvrs.: 8.000.

RADIO-TCHAD (Go.)

ADDR.: B.P. 168, Fort Lamy. Cable: "Radio Tchad". Te.: 158. – L.P.: Dir.: M. Mignot.

HOME SCE.: W.: 12.00–14.00, 16.00–21.00. Sun. 07.00–21.00.

1538 kc/s 195.0 m 1 kW: as above

4904 – 61.18 – 25 – : 16.00 (Sun. 17.00)–21.00

7120 – 42.13 – 4 – : as above

9670 – 31.02 – 25 – : 07.00–16.00 (Sun. 17.00).

French: W.: 12.00–13.00, 16.00–17.00, 19.00–21.00. Sun.: 07.00–13.00, 14.00–17.00, 19.00–21.00. – N.: 12.30, 19.00, 20.55. – Sport & Music (rel. from Paris): Sun. 14.00–17.00.

Arabic: 13.00–13.30, 18.00–19.00. – Sara: 13.30–14.00, 17.00–18.00.

ANN.: "Ici Fort Lamy, Radiodiffusion de la République du Tchad émettant dans les bandes..." or "Ici Fort Lamy, Radiodiffusion du Tchad". – INT.-SIG.: French (open and close down): Marseillaise. Arabic: Notes played on lute (local). Sara: Notes played on "balans" (local). – V. by QSL-card. R.p.

★ TOGO (Republic) ★

L.T.: GMT. – Pr.L.: French, Ewe, Cabrais, Cotocolis, Haoussa, Moba, Bassari, English. – Po.: 1.458.000. – Rcvrs.: 4.000. – E.C.: 130/230 V., A.C., 50 c/s.

RADIODIFFUSION DU TOGO (Go.)

ADDR.: B. P. 434, Lomé. Te.: 2492. – L.P.: Dir.: G. Ekue.

HOME SERVICE: W. 05.30–08.00, 12.00–13.30, 17.30–22.00 (Sat. 12.00–23.00). Sun. 07.00–22.30.

1394 kc/s 215 m 1 kW: as above

5047 – 59.44 – 4 – : 05.30–08.00 (Sun. 10.00), 17.30 (Sat. 15.00)–23.00

7265 – 41.29 – 4 – : 10.00–15.00.

N.: French: 05.32 (W), 06.30 (W), 07.30 (Sun.), 12.30, 19.30, 22.00. – Wrp.: 06.55, 08.00. Vernaculars: W. 06.00, 13.00, 17.30–19.00. English: 21.00.

INT.-SIG.:



ANN.: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais. – V. by QSL-card or letter. – PUB.: Prgr. sched. free on request.

★ TUNISIA ★

L.T.: GMT+1 h. – Pr.L.: Arabic. – Po.: 4.000.000. – Rcvrs.: 200.000. E.C.: 110/220 V., A.C., 50 c/s.

RADIODIFFUSION TÉLÉVISION TUNISIENNE (Go.)

FI.: By state and license payments. – ADDR.: 139, Avenue de Paris, Tunis. Te.: 259.311. – L.P.: Dir. Gen.: C. Klibi, Dir. Tec.: M. Chaffai, Dir. Arabic Prgrs.: T. Zalila, Dir. French Prgrs.: H. Ammar, Dir. For. Rel.: M. Fersi, Dir. Adm.: M. Mehiri

HOME SERVICE

ARABIC NETWORK: Mo.–Thurs.: 05.00–08.00, 11.00–14.00, 16.00–23.30. Fri., Sun.: 05.00–23.30. Sat.: 05.00–08.00, 11.00–23.30. Tunis I 629 kc/s 477 m 100 kW – Sfax I 584 kc/s 514 m 1 kW. Tunis I 5985 kc/s 50.13 m 50 kW*) – 11970 kc/s 25.06 m 50 kW**) – 17845 kc/s 16.81 m 50 kW**)

*) non directional. **) to East.

N., Wrp.: 05.45, 06.30, 07.25, 11.00, 12.00, 13.30, 16.00, 17.00, 18.00, 19.00, 21.00, 23.00.

FRENCH NETWORK: Mo.–Thurs.: 05.30–07.00, 11.00–14.00, 16.00–22.00. Fri.: 05.30–07.00, 11.00–22.00. Sat.: 05.30–03.00, 11.00–23.00. Sun.: 06.00–22.00.

Tunis II 962 kc/s 312 m 100 kW – Sfax II 1421 kc/s 211 m 0.05 kW. N., Wrp.: 05.30, 06.45, 11.00, 12.15, 17.00, 18.30, 21.30.

FOREIGN SERVICE in Arabic: 17.00–18.00 & 18.00–19.00 on 11970/17845 kc/s to the East.

ANN.: Arabic: "Huna al id'a att Thunissia". French: "Ici Tunis Radiodiffusion Télévision Tunisienne". – V. by QSL-card. – Re.: in English or French. PUB.: Prgr.sched. free on request. "El Idhaz" (in Arabic) twice monthly.

★ UGANDA (British) ★

L.T.: GMT+3 h. – Pr.L.: English, Luganda, Lwo, Ateso, Runyoro/Rutoro, Lugbara, Runyankore/Rukiga, Hindustani. – Po.: 6.500.000. – Rcvrs.: 90.000. – E.C.: 240/415 V., A.C., 50 c/s.

UGANDA BROADCASTING SERVICE (Go.)

AD.: Limited adv. planned. – ADDR.: P. O. Box 142, Kampala. Cable: Knowledge. Te.: 3147. – L.P.: Dir. of Inf.: A.G. Ridley, M.V.O. Dir. of Prgr.: J. F. B. Kenyon, Dir. Tec. (Broadc.): A. Stephenson, Assoc. I.E.E., Assoc. Brit. I.R.E.

HOME SERVICE: S.w. 7.5 kW. M.w. 0.5 kW. W.: 03.00–05.00, 12.30–20.00. Sat. 03.00–05.00, 09.15–20.00. Sun. 03.00–20.00.

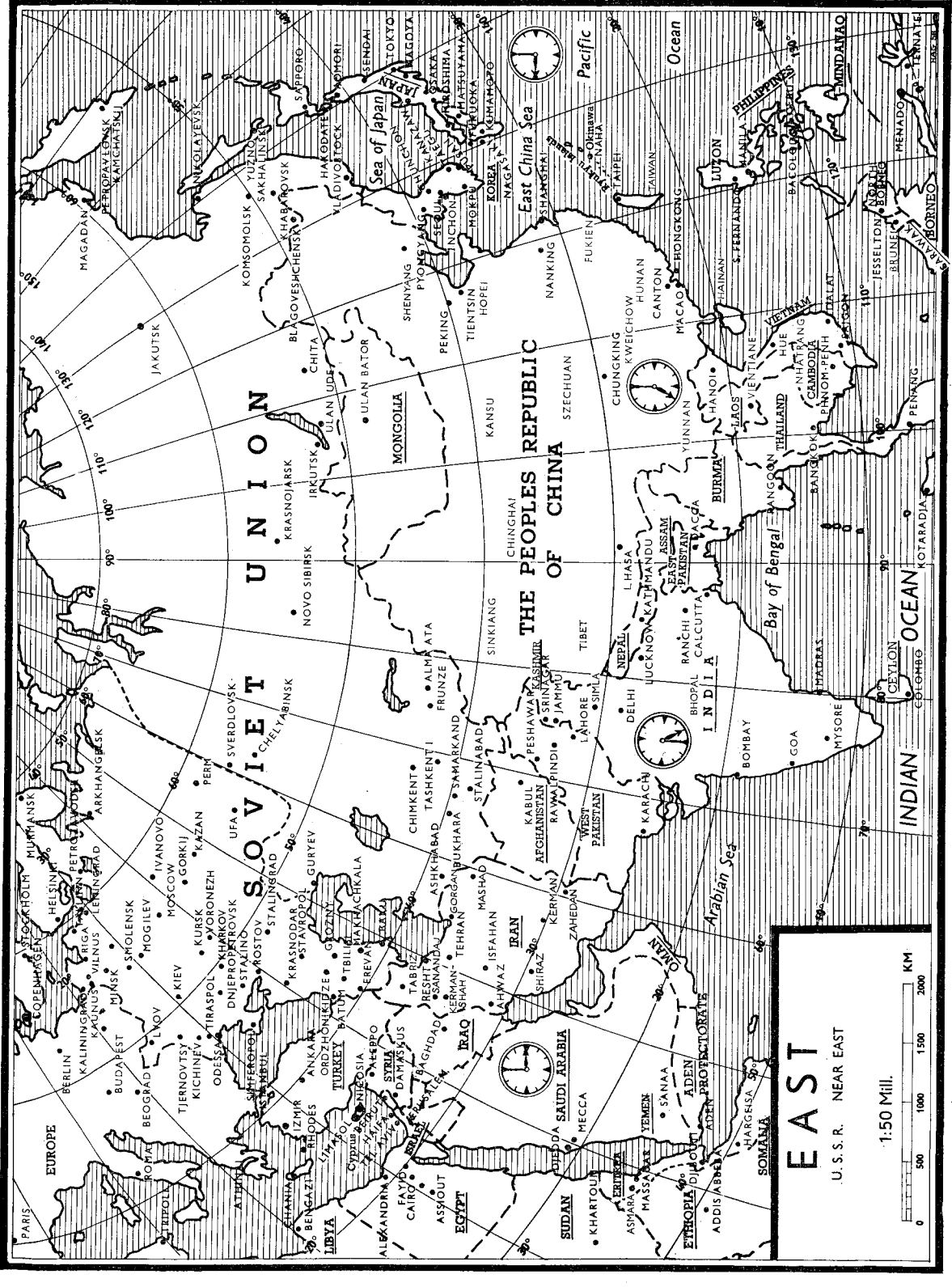
548 kc/s 547.5 m – 971 kc/s 309.0 m

5026¹⁾ – 59.70 – d. – 9590²⁾ – 31.28 – d.

¹⁾ D. from 14.15. ²⁾ D. up to 14.00.

English: D. 17.30–20.00. Sat. 09.15–11.00. Sun. 07.00–08.00. – N.: 18.00 (BBC). – Wrp.: 17.40. – Vernaculars: D. 12.30 (Sat. 11.00, Sun. 08.00–10.30)–14.00, 14.15–17.30, also 03.00–05.00. – Hindustani: Sun. 10.30–11.00.

ANN.: E.: "This is the Uganda Broadcasting Service, Kampala". Luganda: "Eno ye Uganda Broadc. Service, Kampala". Lwo: "Man en aye Uganda Broadc. Service, Kampala". Runyoro: "Enu niyo Uganda Broadc. Service, Kampala". Ateso: "Ne nges Uganda Broadc. Service, Kampala". – V. by QSL-card. – F.P.L.: 3 channel tr. providing powerful m.w. transm. for major population areas and s.w. for remoter areas. Expected to be completed by early 1963.



EAST

U. S. R. NEAR EAST

1:50 Mill.



Upper Volta - Burma

★ UPPER VOLTA (Republic) ★

L.T.: GMT. - Pr. L.: French, Vernaculars. - Po.: 3.800.000. - Rcvrs.: 12.000. - E.C.: 230/380 V., A.C., 50 c/s.

RADIO HAUTE-VOLTA (Go.) - FI.: By state and SORAFOM. ADDR.: B. P. 511, Ouagadougou. Cable: Radiovolta. Te.: 214. - L.P.: Dir. Gen.: V. Jean Louis. Dir. Tec.: M. Dupont.

HOME SERVICE in French, Vernaculars: W. 06.15-07.30, 12.15-13.30, 17.45-22.00 (Sat. 23.00). Sun. 08.00-23.00.

1439 kc/s 208.4 m 1 kW: as above.

4815 - 61.31 - 4/25 - : 17.45-22.00 (Sat., Sun. 23.00).

7230 - 41.49 - 4/25 - : 12.15-13.30 (Sun. 08.00-18.00).

N. in French: 06.45, 12.45, 20.00. - Folklore Music: Sun. 18.30. Vernaculars: Peuhl 17.45, Mossi 18.00, Dioula 18.11, Gourmounsi 18.22, Fourmantché 18.33, Lobi 18.44, Bobo 18.55, Senoufo 19.06.

ANN.: "Ici Ouagadougou, Radiodiffusion de la Haute-Volta émettant sur...". - INT.-SIG.: Folklore music (Balafo). - V. by QSL-card or letter. - F.P.L.: A 1 kW m.w.-st. at Bodo-Dioulasso in 1962.

★ ZANZIBAR (British) ★

L.T.: GMT+3 h. - Pr. L.: Kiswahili, English, Arabic. - Po.: 299.500. - Rcvrs.: 5.200. - E.C.: 240 V., A.C. 50 c/s.

VOICE OF ZANZIBAR - SAUTI YA UNGUJA (Go.)

FI.: By state and spot adv. - ADDR.: P. O. Box 222, Zanzibar. Cable: Broadcasting. Te.: 2128. - L.P.: Broadc. Officer: Sheikh Y. M. Yusuf. Dir. Tec.: N. J. A. Frigout. Dir. Prgr.: Sheikh M. Burhan Mkelle.

HOME SCE.: Kiswahili; occ. items in English, Arabic, Urdu.

600 kc/s 500 m 0.25 kW } W.: 10.30-11.30, 13.30-16.30.

6005 - 49.96 - 3.5 - } Special sce. and dark ess.tr.

4795 - 62.54 - 0.25 - }

3339 - 89.80 0.25 - }

N.: 10.25 (Fri. 10.40), 13.45, 15.45.

ANN.: Swahili: "Hi ni Sauti ya Unguja". Arabic: "Hadha Saut Zinjibar". English: "This is Zanzibar calling on...". - INT.-SIG.: Musical Chords. - V. Reports not required outside Ea. Africa. - PUB.: Weekly prgr. free on request.



★ ADEN (British Colony) ★

L.T.: GMT+3 h. - Pr.L.: Arabic, English. - Po.: 250.000. - Rcvrs.: 50.000. - E.C.: 230 V., A.C. 50 c/s.

ADEN BROADCASTING SERVICE (Go.)

ADDR.: P. O. Box 1264, G. P. O., Aden. Cable: Informat. Te.: 4874. - L.P.: Dir. Gen.: A. M. Zokari. Dir. Prgr. (Ag.): H. M. Safi. Dir. Tec.: D. A. Import.

HOME SERVICE in Arabic: 03.30-05.30 (Fri., Sun. 13.00), 12.00-22.30: 809 kc/s 370.8 m 5 kW - 7170 kc/s 41.84 m 7.5 kW d.

N.: 03.55, 04.45 (Fri. & Sun. 06.45), 12.00, 13.00, 15.00, 17.00, 19.00. Rel. BBC: 18.00, 19.15, 20.15.

ANN.: "Huna Adan" ("This is Aden") or "Mahatatu Adan Lilidha'a" ("This is the Aden Broadcasting Service"). - V. by QSL-card or letter. Rp. preferred. Prgr. schedule free on request.

ADEN FORCES BROADCASTING ASSOCIATION (Mil.)
ADDR. R.A.F. Station, Khormaksar, Aden - 1025 kc/s 293 m: 67¹/₂ broadc. hrs per week in English.

★ AFGHANISTAN ★

L.T.: GMT+4½ h. - Pr. L.: Pushto, Persian. - Po.: 12.000.000. - Rcvrs.: 23.800. - E.C.: 220 V., A.C., 50 c/s.

AFGHAN BROADCASTING SYSTEM (Go.)

ADDR.: Radio Kabul, Baghi Omumi, Kabul. Cable: Aflet. Te.: 22225. - L.P.: Pres.: A. R. Benawa. Dir. Tec.: M. Akram.

STATIONS: *) Summer only.

660 kc/s 454.5 m 20 kW 4710 kc/s 63.69 m 50 kW

4040 - 74.25 - 50 - 9705 - 30.91 - 50 kW

*15225 - 19.70 - 50 kW

HOME SERVICES: 02.30-04.30, 07.30-09.00 on 660/4040/4710 kc/s, 11.30-13.30, 14.30-17.30 on 660/4040/4710 kc/s.

FOREIGN SERVICE: On 660/4040/4710 kc/s: 13.30-14.00 Urdu, 14.00-14.30 English, 17.30-18.00 Russian.

On 9705 kc/s (15225 kc/s in Summer): 18.00-18.30 Arabic, 18.30-19.00 French for Europe.

ANN.: Pushto: "Da Kabul Dai". - INT.-SIG.: A record on national flute.



V. by QSL-card.

★ BAHRAIN ★

L.T.: GMT+4 h. - Pr. L.: Arabic. - Po.: 143.000. - Rcvrs.: 25.000. E.C.: 230/400 V., A.C., 50 c/s.

BAHRAIN BROADCASTING STATION (Go.)

ADDR.: Department of Public Relations and Broadcasting, P. O. Box 253, Manama, Bahrain, Arabian Gulf. Cable: Relations. Te.: Dept. 3460, R. Station 8278. - L.P.: Dir. of Public Rel. & Broadc.: H. J. Mandil. Dir. Tec.: S. A. Khan.

HOME SERVICE: 610 kc/s 491.8 m 2 kW: D. 16.00-19.30, Fri. also 04.30-06.30. - N.: D. 17.30. - Wrp.: 17.45. - Folklore Music: 18.00.

ANN.: Arabic: "Huna Al-Bahrain, Iza'at Al-Bahrain Al-Lasilkia". E.: "Here is Bahrain. The Bahrain Broadcasting Station". - V. by letter. - PUB.: Monthly "Bahrain Calling" in Arabic. Write for copy.

Prgr. schedule free on request.

★ BORNEO, NORTH (British) ★

L.T.: GMT+8 h. - Pr.L.: English, Chinese, Malay, Kadazan. - Po.: 454.000. - Rcvrs.: 15.000. - E.C.: 230 V., A.C., 50 c/s.

NORTH BORNEO BROADCASTING SERVICE (Go.)

ADDR.: Radio Sabah, Jesselton. Cable: Broadcasts. Te.: 2646. - L.P.: Dir. Broadc. & Inf.: R. J. Brooks. Dir. Tec.: W.A.M. Ramsbotham.

STATIONS: m.w. 0.5 kW; s.w. 5 kW.

VQA 930 kc/s 323 m - VQAS2 4970 kc/s 60.36 m.

HOME SERVICE: D. 22.30-00.30, 04.00 (Sat. 03.00)-06.00, 08.30-14.00. - English: D. 23.00-23.30, 04.30-05.00 (Sat. also 03.00-04.00), 11.00-11.15, 12.30-14.00. N.: 11.00-11.15. - Malay: D. 00.00-00.30, 05.30-06.00, 11.15-12.30. - Chinese: D. 23.30-24.00, 04.00-04.30, 08.30-10.00. - Kadazan: D. 22.30-23.00, 05.00-05.30, 10.00-11.00.

ANN.: "This is R. Sabah broadcasting from Jesselton, North Borneo on 4970 kc/s in 60 meter band shortwave and 323 meter in the m.w. band". - INT.-SIG.: Opens and closes with the sound of No. Borneo native gongs. - V. by Q SL-card or letter.

★ BRUNEI (British Protected State) ★

L.T.: GMT+8 h. - Pr.L.: Malay, English, Chinese. - Po.: 83.877. - Rcvrs.: 8.000. - E.C.: 230 V., A.C., 50 c/s.

BRUNEI BROADCASTING SERVICE (Go.)

ADDR.: Brunei Town, State of Brunei, Borneo. Cable: Broadcasting Te.: 345 PBX. - L.P.: Acting Head of Broadc.: M. I. Shah. Chief Eng. (Act): M. K. O. Chen, Assoc. Brit. I.R.E.

MAIN SERVICE: 1240 kc/s 242 m 20 kW: 01.00-04.30 (Fri., Sun.), 04.30-05.30 (Fri., Sun. 06.00), 08.30-14.30 D.

Malay: D. 08.00-10.00, 11.00-13.00, 01.00-02.30 (Fri., Sun.), 04.30-05.30 (Fri., Sun. 06.00). N.: 02.15*, 05.00 (exc. Fri.), 05.30 (Fri.), 09.30*, 12.30.

English: D. 13.00-14.30, 02.30-03.30 (Fri., Sun.). N.: D. 13.30, 03.15* (Fri., Sun.). - Chinese: D. 10.00-11.00, 03.30-04.30 (Fri., Sun.).

N.: D. 10.45, 04.00* (Fri., Sun.). - *) Headlines.

REGIONAL SERVICE:

Kuala Belait: 1100 kc/s 272 m 1.2 kW: 03.30-04.30 Malay, 11.00-12.00 Chinese, 12.00-13.00 English, 13.00-14.30 Malay. Brunei Town 970 kc/s 309 m 1.2 kW: carries Main Service.

ANN.: E.: "This is R. Brunei". Malay: "Inilah Radio Brunei". - INT.-SIG.: Gongs of National folklore (Opening signature tune). - V. by letter. - F.P.L.: Extension of service, sw.

★ BURMA ★

L.T.: GMT+6½ h. - Pr.L.: English, Burmese, Hindustani. - Po.: 21.500.000. - Rcvrs.: 100.000. - E.C.: 220 V., A.C., 50 c/s.

BURMA BROADCASTING SERVICE (Go.)

ADDR.: Promote Rd., Kamayut P.O., Rangoon. Cable: Burbrocast. Te.: 31355. - L.P.: Dir. Gen. U. Khin Zaw, B. A. FLA. Dir. Adm.: U. Pe Thaw, B.B., B.L., D.M.A. Dir. Tec.: U. Win Mg, M.I.R.E.

HOME SERVICE: All transmitters 50 kW.

Call kc/s m H. of tr. Call kc/s m H. of tr.
- 955¹) 314.0 01.00-02.30 XZK3 6035¹) 49.71 11.00-15.20

04.30-07.30 XZK4 7125¹) 42.11 11.00-15.20

11.00-15.20 XZK5 9540¹) 31.45 01.00-02.30

XZK2 4975¹) 62.57 12.00-15.00

F.M.: 100/102/104/106 mc/s. - 0.25 kW. ¹) Prgr. I. ²) Prgr. II.

Burmese: (Prgr. I): 01.00-02.00, 04.30-07.00, 11.00-14.15. N.: 01.05,

06.30 (exc. Mo.), D. 13.15. - Wrp.: 13.28. - Folklore Music: Sun., Tues., Thurs. 13.30.
English: 02.00-02.15, 07.00-07.30 (D. exc. Mo.), 14.15-15.20. N.: 02.00, 07.00 (D. exc. Mo.), 15.00. - Hindustani: 02.15-02.30 (D. exc. Mo.). - N.: 02.22.
Burmese (Prgr. II): 12.00-15.00.
ANN: E.: "This is the Burma Broadcasting Service". Burmese: "Myanma Athan Hma Athan Hlwint Nay Bawthe". - **INT.-SIG.:** Eric Coates* March; "Calling all workers". - V. by QSL-card. Rp.

★ CAMBODIA ★

L.T.: GMT+7 h. - **Pr.L.:** Cambodian, French. - **Po.:** 5,000,000. - **Rcvrs.:** 42,000. - **E.C.:** 220 V., A.C., 50 c/s.

RADIO CAMBODGE (Go.)

ADDR: 28 Ave. Préah Moha Ksatéyany Kossomak, Phnom Penh. **Cable:** Mifomation. - **L.P.:** Dir. Gen.: D. Sidim. Dir. News: S. Kean. **HOME & FOREIGN SERVICES:**

1410 kc/s 213.0 m 20 kW 6090 kc/s 49.26 m 15 kW
 4907¹) - 61.13 - 1 - 7183²) - 41.76 - 1 -
¹) not used for normal broadcast. ²) for use in case of breakdown.

On 1410 kc/s: Mo.-Fri.: 22.15-01.30 (Thurs. 03.00), 09.45-16.00. Sat.: 22.45-01.30, 04.15-16.00. Sun.: 22.45-03.00, 04.15-17.00.

On 6090 kc/s: W. 13.00-16.00. Sun. 13.00-17.00.

French: 23.15-23.30, 05.15-05.30, 06.00-07.30, 12.45-13.00 - **English:** D. 05.30-06.00, 12.25-12.45 - **Chinese***: D. 13.00-14.00 - **Vietnamese***: D. 14.00-14.20 - **Laotian***: D. 14.20-14.40 - **Thai***: D. 14.40-15.00. *) on 6090 kc/s only.

ANN: "Ici Phnom-Penh, La Voix du Cambodge, Station de Radio-diffusion Nationale Khmère". - **E.P.L.:** A 50 kW s.w. tr. within a few months.

★ CEYLON ★

L.T.: GMT+5½ h. - **Pr.L.:** English, Sinhalese, Tamil. - **Po.:** 10,000,000. - **Rcvrs.:** 349,908. - **E.C.:** 220 V., A.C., 50 c/s.

RADIO CEYLON (Go., Com.)

FL.: By state, licenses, adv. **ADDR.:** Dept. of Broadcasting, P. O. Box 574, Colombo 7. **Cable:** Racevelyn. Te.: 91234.

L.P.: Dir. Gen.: R. J. G. De Mel (Acting), Chief Engineer: N. S. Wickremasinghe. Dir. Nat. Sec.: D. T. L. Guruge (Acting). Dir. Com. Sec.: C. R. Dodd. Addl. Dir. Comm. Sec.: L. R. Wijemanne (Acting). Adm. Assistant: D. P. Wiratunge. Editor News & Pub.: E. K. Perera. Listeners Research Officer: P. W. S. Perera.

STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
540	555.5	0.25	5020	59.76	10	9520	31.51	10/100
640	469.0	0.25	6004	49.95	7.5	11770	25.49	35
700	428.0	15	6075	49.38	7.5	11835	25.35	35
870	344.8	0.25	6185	48.50	7.5	11875	25.26	35
920	326.0	1	7110	42.19	10	15120	19.84	35
4870	61.60	10	7190	41.72	10	15265	19.65	35
4900	61.22	10	7235	41.47	10	17820	16.84	35
4965	60.42	10	7300	41.09	10			

NATIONAL SERVICE

ENGLISH: D.: 11.30-17.30 on 920/5020 kc/s. Sun. 04.30-07.30 on 920/6185 kc/s. N., Wrp.: W.: 13.00, 15.45. - **L.L.:** Fri. 14.00 "Listen & Teach" (BBC).

SINHALESE: On 700/4900 kc/s: W. 01.00-03.00; on 700/6075 kc/s: W. 06.30-08.00; on 700/4900 kc/s: Sun. 01.00-08.00, D. 11.00-17.00. N.: 01.30, 07.15, 12.30, 15.30. - **Folk Music:** W. 02.00, Wed., Fri. 13.15, Sat. 13.45, Sun. 03.15.

TAMIL: On 870/4870 kc/s: D.: 01.15-03.00, 11.30-17.00; on 870/6004 kc/s: W. 06.30-08.00, Sun.: 03.00-04.30, 06.00-08.00. N.: 01.30, 07.15, 12.30, 15.30.

TO S.O.E.A. ASIA in English, Sinhalese and Tamil: On 17820 kc/s: D. 09.15-10.15. Home & Foreign N. (from Ceylon): D. 09.30 (English), Thurs. 09.45 (Hindi), Sat. 09.55 (Tamil).

ANN: English: "This is the National Sec. of R. Ceylon - Tamil: 'Illankai Vanalai-Thesiya Oliparappu' - Sinhalese: 'Me Lanka Guwan Viduliyi Suwadeshiya Pracharaya'". - **INT.-SIG.:** All three services open with "National Drums" ("Magul Bera") and close with National Anthem ("Namo Namo Matha").

COMMERCIAL SERVICE

TO CEYLON in English, Sinhalese, Tamil:

Sinhalese: On 640/4870 kc/s: D.: 01.30-03.00, 05.30-07.30; on 640/6004 kc/s: D. 3.00-04.30, Sat., Sun. 07.30-10.30; on 920/6185 kc/s: W. 07.30-10.30; on 920/5020 kc/s: W. 10.30-11.30. N.: D.: 01.45, 07.15. - **Tamil:** On 640/6004 kc/s: D. 04.30-05.30; on 640/4870 kc/s: W. 09.30-10.30, Sat., Sun. 10.30-12.30.

English: On 920/5020 kc/s: D. 01.30-03.00, Sat., Sun. 10.30-11.30; on 920/6185 kc/s: D. 03.00-04.30, Sat., Sun. 07.30-10.30; on 640/6004 kc/s: W. 07.30-09.30; on 640/4870 kc/s: D. 12.30-17.30. - N.: D.: 02.00, 07.45, 13.00.

TO ASIA in English, Hindi, Tamil:

English: On 15265 kc/s: D. 01.30-03.30; on 9520 kc/s: D. 12.30-16.45. N.: D.: 02.00, 13.00.

Vernaculars: On 9520/15120 kc/s: D. 01.30-04.30 (Sun. 07.30); on 7190/11770 kc/s: D. 11.00 (Sat., Sun. 10.30)-17.30.

ANN: English: "This is the Commercial Service of R. Ceylon" - **Sinhalese:** "Me Lanka Velanda Guwan Viduliyi Sewayai" - **Tamil:** "Illankai Vanalai Varthaga, Olipparappu" - **Hindi:** "Yeh R. Ceylon Ka Vyapaar Vibhag Hai" - **INT.-SIG.:** Opens and closes with the theme "Strike up the Band". - V. by letter or QSL-card. Re. in English to be addressed to Listeners Research Officer. - **PUB.:** R. Times (fortnightly). - **F.P.L.:** A reg. st. at Senkadagala on 660 kc/s.

VOICE OF AMERICA RADIO STATION IN CEYLON

ADDR.: Voice of America, Washington 25, D.C., USA.

STATIONS: Colombo 35 kW: 01.00-01.30, 02.00-02.30, 03.00-03.30, 12.00-19.00.

7110 kc/s	42.19 m	11835 kc/s	25.35 m	15230 kc/s	19.70 m
7275	41.24	11875	25.26	15415	19.46
				17800	16.85

01.00-01.30, 02.00-02.30 on 7275, 11875 kc/s - 03.00-03.30 on 11835 kc/s - 12.00-18.00 on 7110, 11875, 15385 kc/s - 18.00-18.30 on 15230 kc/s - 18.30-19.00 on 15230, 17800 kc/s.

01.00-01.30	English	15.00-15.30	English
02.00-02.30	English	15.30-16.00	Hindi
03.00-03.30	English	16.00-16.30	English
12.00-13.30	English		Urdu
13.30-14.00	W. Bengali	16.30-18.00	English
13.30-14.00	English	18.00-18.30	English to Africa (15230)
14.00-15.30	English		
14.30 15.00	E. Bengali (11875, 15415)	18.30 19.00	Hindi to Ea.Af. (15230, 17800)
	Tamil (7110)		

ANN: "This is Colombo relaying Voice of America Programs". **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card.

THE PEOPLE'S REPUBLIC OF CHINA

L.T.: GMT+8 h. - **Pr.L.:** Chinese. - **Po.:** 650,000,000. - **Rcvrs.:** 6,000,000. - **Loudspeakers** for the (wire): 6,280,000.

BROADCASTING ADMINISTRATION (Go.)

ADDR.: Broadcasting Administration, Outside Fu Hsin Men, Peking.

L.P.: Dir. Gen.: Mei I.

HOME SERVICE**CENTRAL PEOPLE'S BROADCASTING STATION:**

Medium Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
540	555.6	700	428.6	890	337.1	1160	258.6
560	535.7	710	422.5	910	329.7	1210	247.8
570	526.3	720	416.7	980	306.1	1230	243.9
600	500.0	760	394.7	1000	300.0	1350	214.8
610	491.8	790	379.7	1020	294.1	1470	204.1
640	468.8	820	365.9	1090	275.2	1500	200.0
				1150	260.9	1510	198.7

Short Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3390	88.50	7100	42.25	9765	30.72	11935	25.14
3915	76.63	7170	41.84	9860	30.43	15030	19.96
3985	75.28	7195	41.70	9920	30.24	15175	19.77
4560	66.67	7240	41.44	9945	30.17	15240	19.69
5030	59.64	7265	41.29	9972	30.08	15290	19.62
5125	58.54	7370	40.71	10260	29.24	15300	19.61
5915	50.72	7480	40.08	11290	26.57	15313	19.59
6065	49.46	7500	40.00	11330	26.47	15445	19.43
6100	49.18	9020	33.26	11455	26.19	15480	19.38
6212	48.29	9064	33.09	11600	25.86	15550	19.29
6225	48.19	9170	32.70	11630	25.79	15590	19.24
6595	45.48	9340	32.12	11660	25.73	15610	19.22
6790	44.18	9570	31.35	11675	25.70	15710	19.10
6810	44.05	9620	31.19	11690	25.66	15880	18.89
6925	43.96	9670	31.02	11860	25.30	17450	17.19
6890	43.54	9717	30.88	11910	25.19	17490	17.15
7065	42.46	9735	30.82	11925	25.16	17533	17.11

FIRST PRGR.: On 540, 560, 570, 640, 700, 760, 890, 980, 1020 kc/s and in 76-49-41-31-25-19-16 m.b. Winter and Spring (1961/62) 21.20-16.00 (Nov.-Apr.): N.: 21.30-21.40, 22.15-22.45, 00.00-00.05, 02.30-02.35, 04.30-04.05, 10.00-10.15, 12.10-12.25, 12.30-13.00, 14.30-14.45, 15.30-16.00. - **Summer and Autumn (1962)** 20.50-17.00 (May-Oct.): N.: 21.00-21.15, 22.15-22.45, 00.00-00.05, 01.30-01.45, 04.15-04.30, 04.30-04.45, 10.00-10.15, 12.10-12.25, 12.30-13.00, 14.00-14.15, 15.00-15.15, 16.00-16.15.

SECOND PRGR.: On 600, 610, 710, 720 kc/s and in 76-49-41-31-25-19-16 m.b. Winter and Spring (1961/62) 22.30-03.00, 03.55-17.00 (Nov.-Apr.): N.: 23.00-23.30, 00.00-03.00 (dictation, exc. Sun.), 07.00-07.05, 15.00-17.00 (dictation). - **Summer and Autumn (1962)** 21.20 03.00, 03.40-17.00 (May-Oct.): N.: 21.30-21.45, 23.00-23.30, 00.00-03.00 (dictation, ex. Sun.), 04.45-05.00, 06.00-06.05, 08.00-08.15, 09.45-10.00, 11.30-11.45, 15.00-17.00 (dictation).

China

THIRD PRGR.: On 1000, 1150, 1160 kc/s and in 76-49-31-25-19 m.b.: Tues.-Sun.: 08.55-15.30, Mo. 05.50-15.30. - N.: 11.25-11.30.

FOURTH PRGR.: (to the Capital): 820 kc/s: 21.50-05.45, 06.50-16.00. - 1210 kc/s: 03.50-14.00. - 1350 kc/s: 00.00-03.30, 05.30-10.30, 11.00-14.30. - 1500 kc/s: 22.00-03.30, 05.30-10.00, 11.00-14.30.

TO TAIWAN: On 790, 910, 1090, 1230, 1470, 1510 kc/s and in 58-49-41-31-25-19-16 m.b.: 20.55-01.05, 02.25-06.05, 08.25-17.00. - N.: 21.00-21.15, 23.00-23.10, 04.00-04.15, 11.00-11.15, 15.00-15.10, 16.00-16.15.

LOCAL STATIONS

	kc/s		kc/s
Shanghai	850, 990, 1110, 1210, 1290, 1500	Sinkiang	740, 910, 4220, 4500, 4770, 6280, 7050, 7385, 9470, 10245
Hopei	780, 1280		
Tientsin	870, 920, 1070, 1390, 1520	Shantung	1320, 2350
Tsangchow	1440	Tsinan	910
Hantan	1370	Tsingtao	850, 1400
Hsingtai	1080	Yentai	1450
Shichiaichuang	930	Kiangsu	680
Paoting	1470	Nanking	820
Changchiakow	910	Wusih	1400
Chengteh	850	Changchow	870
Tangshan	890, 1450	Yangchow	1370
Chinhuangtao	1370	Huaiyin	1530
Shansi	1110	Hsuechow	1450
Taiyuan	1530	Hsinhaiien	1350
Tatung	1370	Nantung	1440
Yuanchuan	1590	Soochow	1330
Chintungnan	1490	Anhui	940
Inner		Huainan	1270
Mongolia A	960, 1460, 4068, 6840, 6974, 9365, 9492, 11040	Anking	1440
		Wuhu	1490
		Maanshan	1070
		Chekian	800, 1350, 2475
		Ningpo	890
Inner		Wenchow	1450
Mongolia B	1070, 1380, 3900	Chowshan	1270
Huhehot	1330	Fukien	880, 1430, 4980
Paotow	670, 1390	Foochow	1330
Ulanchap	1540	Amoy	1110
Silingol	1310, 4525	Chanfchow	1360
Chirim	1350	Honan	1420
Chaowut	1490, 4068	Kaifeng	970
Ikhechow	1360	Hsinhsiang	890
Bayinnor	1270, 4000	Tsiaotso	1560
Liaoning	218, 1240	Hsiyang	420
Shenyang	690, 790, 1440	Pingtingshan	1590
Fushun	850, 1520	Nanyang	1360
Penhsi	740, 1310	Hupei	770
Anshan	950, 1070	Wuhan	1110, 1370
Antung	890, 1400	Hwangshih	1470
Lushun-Dalien	690, 830	Shashih	1450
Yingkow	1110	Hsiangfan	1330
Chingchow	910, 1410	Hunan	1260, 4990
Fushin	930, 1470	Changsha	1530
Kirin	580, 1360, 1600	Chuchow	1400
Changchun	1330, 1450	Hsiangtan	1500
Shihping	1130	Hengyang	1350
Liaoyuan	1080	Shaoyang	1390
Tunghua	1340	Changteh	1570
Baicheng	1270	Kiangsi	840
Yenpien	920	Nanchang	1310, 1600
Heilungkiang	250, 620	Chingtehchen	1400
Harbin	660, 970, 1570	Chiukiang	1560
Ichun	910	Kanchow	1270
Chiamuszu	610, 1590	Kwangtung	1060, 1340
Hekang	1410	Canton	790, 890, 1400
Shuangyashan	1110	Swatow	910
Mutankiang	750	Chankiang	1290
Chihsi	1530	Maoming	920
Tsitsihar	740, 850	Hainan	950
Shensi	900, 6176	Kwangsi	620, 1120, 5010
Sian	690, 1370, 1490	Nanning	1370
Paochi	1310	Paisheh	1390
Tungchuan	1050	Liuchow	1330
Hanchung	1350	Kweilin	1450
Kansu	860, 7324, 9780	Wuchow	1410
Lanchow	1400	Szechuan	1220, 7225
Pingliang	1550	Chengtu	750
Tienshui	1270	Tsukung	1490
Changyeh	1490	Chungking	1080, 1310
Yumen	1290	Kweichow	1030, 3260
Kannan	1330	Tsunyi	1370
Ninghsia	1290	Tuyun	1490
Chinghai	1010, 1250, 6260, 6500, 9500	Yunnan	810, 6925, 9990
		Tibet	5935, 9490

FOREIGN SERVICE

Medium Waves: 1020 kc/s 294 m, 1190 kc/s 252 m, 1300 kc/s 231 m

Short Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
4020	74.63	7080	42.37	9570	31.35	11750	25.53
5075	59.11	7095	42.28	9585	31.30	11800	25.42
5935	50.55	7115	42.16	9590	31.28	11820	25.38
5950	50.42	7125	42.11	9595	31.27	11860	25.30
5985	50.13	7135	42.05	9600	31.25	11885	25.24
5990	50.08	7150	41.96	9650	31.09	11910	25.19
6000	50.00	7160	41.90	9660	31.06	11945	25.12
6025	49.79	7180	41.78	9665	31.04	11955	25.09
6035	49.71	7200	41.67	9690	30.96	11965	25.07
6065	49.46	7205	41.64	9755	30.76	11975	25.05
6080	49.34	7210	41.61	9775	30.69	11980	25.04
6120	49.02	7230	41.49	9785	30.66	12010	24.98
6125	48.98	7265	41.29	9800	30.62	12055	24.89
6135	48.90	7295	41.12	9860	30.43	15030	19.96
6145	48.82	7315	41.01	9920	30.24	15060	19.92
6150	48.78	7335	40.90	9945	30.17	15080	19.89
6155	48.74	7350	40.82	9965	30.11	15095	19.87
6170	48.62	7480	40.11	11505	26.08	15115	19.85
6180	48.54	9457	31.73	11650	25.75	15140	19.82
6200	48.39	9480	31.65	11675	25.70	15150	19.80
6210	48.31	9500	31.58	11685	25.67	15190	19.75
7035	42.64	9510	31.55	11715	25.61	15210	19.72
7060	42.49	9550	31.41	11730	25.58	15220	19.71
7065	42.46	9555	31.40	11740	25.55	15235	19.69

I=South East Asia. II=Korea. III=Japan. IV=Philippines. V=India & Pakistan. VI=West Asia & North Africa. VII=East Africa. VIII=South East Africa. IX=South Africa. X=West Africa. XI=Europe. XII=Australia & New Zealand. XIII=Eastern North America. XIV=Western North America. XV=Latin America. XVI=Central America.

Languages	Beamed Areas	Winter-Spring 1961/62	Summer-Autumn 1962
Amoy:	23.30-24.00	I 49, 31, 25, 19	31, 25, 19, 16
	12.00-13.00	I 31, 25, 19	31, 25, 19, 16
	12.00-13.00	IV, XII 25, 19, 16	25, 19, 16
Arabic:	16.30-17.30	VI 49, 41, 31	41, 31, 25, 19
	18.30-19.30	VI 49, 31, 41	41, 31, 25, 19
Burmese:	00.30-01.00	I 25, 19, 16	25, 19, 16
	12.00-12.30	I 31, 25, 19	31, 25, 19
	14.00-14.30	I 252, 41, 31, 25, 19	252, 31, 25, 19
Cambodian:	10.30-11.30	I 25, 19, 16	25, 19, 16
	11.30-12.30	I 231	231
	12.30-13.00	I 25, 19, 16	25, 19, 16
	14.30-15.00	I 31, 25, 19	31, 25, 19
Cantonese:	17.00-18.00	V, VIII 49, 41, 31, 25	41, 31, 25, 19
	22.30-23.00	I 49, 41, 31, 25	49, 41, 31, 25, 19
	23.00-23.30	I 49, 41, 31, 25	49, 41, 31, 25, 19
	01.00-02.00	XIII, XV 41, 31, 25, 19	31, 25, 19, 16
	03.00-04.00	XIV 31, 25, 19	31, 25, 19, 16
	10.00-11.00	XII, IV 25, 19, 16	25, 19, 16
	11.00-12.00	I 252, 31, 25, 19	252, 31, 25, 19, 16
Chaochow:	00.30-01.00	I 49, 31, 25, 19	31, 25, 19, 16
	14.00-15.00	I 31, 25, 19	31, 25, 19, 16
English:	16.00-17.00	V, VIII 252, 49, 41, 31, 25	252, 41, 31, 25, 19
	17.00-18.00	VIII, V 252, 41, 31, 25, 19	252, 41, 31, 25, 19
	18.00-19.00	X, VI 49, 41, 31, 25	41, 31, 25, 19
	19.00-20.00	XI 49, 41, 31	49, 41, 31, 25
	20.30-21.30	XI 49, 41, 31	49, 41, 31, 25
	21.30-22.30	X 49, 41, 31	49, 41, 31, 25
	01.00-02.00	XIII 41, 31, 25, 19	41, 31, 25, 19, 16
	02.00-03.00	XIII 41, 31, 25, 19	41, 31, 25, 19, 16
	03.00-04.00	VII 25, 19, 16	25, 19, 16
	03.00-04.00	XIV 41, 31, 25, 19, 16	41, 31, 25, 19, 16
	04.00-05.00	XIV 41, 31, 25, 19, 16	41, 31, 25, 19, 16
	08.30-09.30	XII, IV 25, 19, 16	25, 19, 16
	09.30-10.30	XII, IV 25, 19, 16	25, 19, 16
	12.00-13.00	I 252, 25, 19, 16	252, 25, 19, 16
	14.00-15.00	V, VIII 41, 31, 25, 19	41, 31, 25, 19, 16
	15.00-16.00	VII 41, 31, 25, 19	31, 25, 19, 16
French:	18.30-19.30	X, VI, XI 49, 41, 31, 25	41, 31, 25, 19
	19.30-20.30	XI, VI, X 49, 41, 31, 25	41, 31, 25, 19
	20.30-21.30	X, VI, XI 49, 41, 31, 25	41, 31, 25, 19
	21.30-22.30	XI, VI, X 49, 41, 31, 25	41, 31, 25, 19
German:	18.00-18.30	XI 49, 41, 31, 25	41, 31, 25, 19
	20.00-20.30	XI 49, 41, 31, 25	41, 31, 25, 19
Hakka:	00.00-00.30	I 49, 31, 25, 19	31, 25, 19, 16
	10.00-11.00	I 31, 25, 19	31, 25, 19, 16
Hindi:	16.00-17.00	V 49, 41, 31, 25, 19	41, 31, 25, 19, 16
	03.00-03.30	V 25, 19, 16	25, 19, 16
	15.00-16.00	V 49, 41, 31, 25, 19	41, 31, 25, 19, 16



The Broadcasting Centre, Peking

Listen to

RADIO PEKING

China

Indonesian:	23.00-23.30	I	31, 25, 19	31, 25, 19
	08.30-09.00	I	25, 19, 16	25, 19, 16
	10.30-11.30	I	25, 19, 16	25, 19, 16
	13.00-13.30	I	25, 19, 16	25, 19, 16
Italian:	19.00-19.30	XI	49, 41, 31, 25	41, 31, 25
	20.00-20.30	XI	49, 41, 31, 25	41, 31, 25
	21.00-21.30	III	294, 75, 49, 41, 31	294, 49, 41, 31
	03.30-04.00	III	31, 25, 19	31, 25, 19
Japanese:	09.00-10.00	III	294, 49, 41, 31, 25	294, 49, 41, 31, 25
	11.00-12.00	III	294, 75, 49, 41, 31	294, 49, 41, 31, 25
	12.30-13.30	III	294, 75, 49, 41, 31	294, 49, 41, 31, 25
	14.00-15.00	III	294, 75, 49, 41, 31	294, 49, 41, 31
Korean:	10.00-11.00	II	294, 75, 49, 41, 31	294, 49, 41, 31
	12.00-12.30	II	294, 75, 49, 41, 31	294, 49, 41, 31
	13.30-14.00	II	294, 75, 49, 41, 31	294, 49, 41, 31
	00.30-01.00	I	25, 19, 16	25, 19, 16
Laotian:	11.00-11.30	I	231	231
	13.00-14.00	I	31, 25, 19	31, 25, 19
	15.00-15.30	I	41, 31, 25, 19	31, 25, 19
	09.30-10.00	I	25, 19, 16	25, 19, 16
Malayan:	14.00-14.30	I	25, 19, 16	25, 19, 16
	16.00-16.30	VI	49, 41, 31	41, 31, 25, 19
	18.00-18.30	VI	49, 41, 31	41, 31, 25, 19
	15.00-15.30	VI	49, 41, 31	41, 31, 25, 19
Portuguese:	18.30-19.00	IX	49, 41, 31, 25	41, 31, 25, 19
	19.30-20.00	X, XI	49, 41, 31, 25	41, 31, 25, 19
	23.00-23.30	XV	49, 41, 31, 25	41, 31, 25, 19
	00.00-00.30	XV	49, 41, 31, 25	41, 31, 25, 19
Serbian:	01.30-02.00	XV	41, 31, 25, 19	31, 25, 19, 16
	19.00-19.30	XI	49, 41, 31	49, 41, 31, 25
	21.30-22.00	XI	49, 41, 31	49, 41, 31, 25
	20.30-21.30	XI	49, 41, 31, 25	41, 31, 25, 19
Spanish:	22.00-23.00	XV	49, 41, 31, 25	49, 41, 31, 25, 19
	23.30-00.30	XVI	41, 31, 25, 19	31, 25, 19, 16
	00.30-01.30	XV	49, 41, 31, 25	31, 25, 19, 16
	02.00-03.00	XV	31, 25, 19, 16	31, 25, 19, 16
Standard Chinese	17.30-18.30	VI, XI	49, 41, 31, 25	41, 31, 25, 19
	20.00-21.00	XI, VI	49, 41, 31	49, 41, 31, 25
	22.30-23.00	I	49, 41, 31	41, 31, 25, 19
	23.00-23.30	I	49, 41, 31, 25	49, 41, 31, 25, 19
Swahili:	02.00-03.00	XIII	41, 31, 25, 19	31, 25, 19, 16
	04.00-05.00	XIV	31, 25, 19	31, 25, 19, 16
	09.00-10.00	I	31, 25, 19	252, 31, 25, 19, 16
	13.00-14.00	I	252, 31, 25, 19	252, 31, 25, 19, 16
Thai:	16.00-16.30	VII	31, 25, 19	31, 25, 19, 16
	17.00-17.30	VII	31, 25, 19	31, 25, 19, 16
	23.30-00.00	I	31, 25, 19, 16	25, 19, 16
	11.30-12.00	I	25, 19, 16	25, 19, 16
Turkish:	12.30-13.00	I	231	231
	13.30-14.30	I	231, 31, 25, 19	231, 25, 19
	17.30-18.00	VI	49, 41, 31	41, 31, 25, 19
	19.30-20.00	VI	49, 41, 31	41, 31, 25, 19
Vietnamese:	10.00-10.30	I	25, 19, 16	25, 19, 16
	10.30-11.00	I	231	231
	11.30-12.00	I	25, 19, 16	25, 19, 16
	13.30-14.00	I	31, 25, 19	31, 25, 19
	14.30-15.00	I	231, 31, 25, 19	231, 31, 25, 19

NT-SIG:



V. by QSL-card or letter.

TAIWAN (FORMOSA)

L.T.: GMT+8 h. (Su.: June-Sept.: GMT+9 h.). - Pr.L.: Mandarin, Cantones, Amoy, Hakka, Chauchow. - Po.: 10.853.627. - Revrs.: 763.062. - E.C.: 110 V., A.C., 60 c/s.

BROADCASTING CORPORATION OF CHINA

(Private Enterprise under Go. contract). - FI.: By Go. and adv. ADDR.: New Park, Taipei. Cable: Broadcast Taipei. Te.: 25432. - L.P.: Chairman of the Board of Dir.s: H. C. Liang, Man. Dir., Dir. For. Rel.: J. Wei, Dir. Adm.: T. H. Chang, Dir. Prgr.: Chin-Sun Li Dir. Tec.: Shan-Wei Wang.

STATIONS: Medium Waves: 0.5/1/20/50/150 kW.

Taipei: 660, 960, 1060 kc/s - Hsinchu: 1020 kc/s - Miaoli: 1410 kc/s - Taichung: 720, 960, 1520 kc/s - Chiayi: 750, 1040, 1210, 1460 kc/s - Tainan: 890, 1280, 1540 kc/s - Kaohsiung: 860, 1220, 1450 kc/s - Taitung: 820, 1410 kc/s - Yuli: 1120 kc/s - Hualien: 860, 1190, 1470 kc/s - Ilan: 1380 kc/s.

Short Waves: 1/3.5/20/50/75 kW. Taipei:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3215	93.31	7225	41.52	9720	30.86	11920	25.17
5980	50.17	7250	41.38	11725	25.59	15105	19.86
6040	49.67	7255	41.35	11735	25.56	15225	19.70
6180	48.54	9660	31.06	11825	25.37	15235	19.69
7130	42.08	9675	31.01	11860	25.30	15345	19.55

Chiayi:

6095	49.22	9630	31.15	11970	25.06	15320	19.58
7150	41.96	9660	31.06	15280	19.63	21735	13.80

HOME SERVICE: 21.00-16.00 on 660/1070/1190/3215/5980 kc/s. FOREIGN SERVICE: I-No. Am., Hawaii. II-So. Ea. Asia. III-Japan/Korea. IV=So. Africa.

Time Area kc/s Language
01.10-01.40 I 6095, 9675, 15345, 17785, 17890 English
04.00-06.00 II 6095, 7255, 9660, 15225, 17785

09.25-09.55 III 6095, 7130 Korean
10.10-11.20 III 6095, 7130, 11735, 11825 Eng./Japanese*

11.30-13.50 II 6095, 7130, 9720, 11735, 11825 ***
14.00-16.00 II 6095, 15225 ***

17.20-18.05 IV 11920, 15345, 17785
* English 10.10-10.55. ** English 12.30-13.25. *** Indonesian

14.00-14.30.
ANN.: Home Sec.: E.: "This is the (1st, 2nd or 3rd) network of BCC".

Foreign Sec.: E.: "This is the Voice of Free China, Taipei, Taiwan". - V. by QSL-card or letter. Prgr.sched. free on request.

CHENG SHENG BROADCASTING CORP. (Comm.)

ADDR.: 140/6 Chang An West Road, Taipei. Cable: Csbcoa. Te.: 42400. - L.P.: Pres.: C. Y. Peng. Gen. Mgr.: S. H. Shia.

HOME SERVICES: St. 2-8): 22.00-16.30.

Call	kc/s	m	kW	Call	kc/s	m	kW
1) BEC36	590	508.6	1	23.00-18.00			
BEC36	5995	50.04	1				
BEC36	7200	41.67	3.5	English: 04.15-04.45.			

Call	kc/s	m	kW	Call	kc/s	m	kW
2) BEV34	820	365.9	1	5) BEV36	1130	265.5	1
3) BEV35	850	352.9	1	6) BEV72	930	322.6	1
4) BEV58	1290	232.5	1	7) BEV60	1020	297.0	1
BEV59	1170	256.4	1	8) BEV37	1530	196.0	1

1) The Voice of Righteousness, Taipei - 2) Cheng Sheng the First Dept., Taipei - 3) Cheng Sheng the Second Dept., Taipei - 4) BEV58: The Farmers Broadc. St., First Dept., Taiching. BEV59: The Farmers Broadc. St., Second Dept., Taiching - 5) Yun Lin Broadc. St., Yun-Lin - 6) Kung Yi Broadc. St., Chiayi - 7) Cheng Yen Broadc. St., Kaohsiung - 8) Chang Tung St., Taitung. - V. by QSL-card.

FU HSING BROADCASTING STATION (Go.)

ADDR.: P.O. Box 799, Taipei. Te.: 43126.

L.P.: Dir. Gen.: C. Kung. Dir. Tec.: L. Lee.

HOME SCE. in Mandarin: Taipei: 21.50-06.30, 08.50-17.40 on 790, 910, 1430, 1510 kc/s and BEH22 15175 kc/s 19.77 m 1 kW.

Taichung: 21.50-17.00 on 910, 1090, 1230, 1430, 1510 kc/s - Kaohsiung: 21.50-16.30 on 790, 1090, 1430, 1510 kc/s - Taitung: 21.55-14.30 on 1090 kc/s - Ilan: 21.50-17.05 on 1090 kc/s - Hualien: 21.50-16.10 on 1230 kc/s.

FOREIGN SCE. in Mandarin: 15.30-16.00 on all freq.s. - V. by QSL-card. Rp. Prgr.sched. free on request.

POLICE BROADCASTING NETWORK (Go.)

ADDR.: No. 1 Tientsin Street, Taipei. - L.P.: Dir. Gen.: C.Y. Tuan Dir. Tec.: C. C. Yin.

HOME SCE.:

Taipei	Call	kc/s	m	kW	W.	22.00-01.30,	02.00-07.00,
	BEP22	1260	238	10			
	BEP23	5960	50.34	1		08.30-17.00.	Sun. 23.30-17.00.
Hsinchu	BEP26	1120	267.8	1.5	N.	23.30, 03.00, 04.50, 06.30,	
Changwa	BEP24	780	384.6	1.5		09.00, 11.20, 12.00, 13.30, 14.30,	
Kaohsiung	BEP25	1120	267.8	1.5		16.50.	

V. by QSL-card or letter. Prgr.sched. free on request.

TAIWAN COMMERCIAL BROADCASTING STATIONS ASSOCIATION

ADDR.: 22 Lane 81, Maoy Str., Taipei.

Short Wave: BEG23 7180 kc/s 41.78 m 1 kW: You Sze Broadc. St., 49 Kun Ming St., Taipei: 21.30-24.00, 02.30-05.00, 08.30-14.30. +29 m.w. stations not mentioned.

MILITARY BROADCASTING STATIONS (Go.)

ADDR.: Military Broadcasting Corps, Ministry of National Defense, Taipei. - L.P.: Maj. Gen.: Hsu Ju-hua.

STATIONS:

Call	kc/s	m	kW	Call	kc/s	m	kW
1) BEC22	1110	270.27	1.5	2) BEC25	700	428.6	3
BEC23	1520	197.4	3	BEC26	6090	49.26	3
BEC24	7280	41.21	1.5	3) BEC27	1200	250.0	1.5

3) Call	kc/s	m	kW	Call	kc/s	m	kW
BEC28	7240	41.44	1.5	6) BEC35	840	357.14	0.5
4) BEC29	1250	240.0	1.5	BEC36	1330	225.6	1.5
BEC32	9505	31.35	1.5	BEC37	5985	50.12	1.5
5) BEC33	1350	222.2	1.5	7) BEC38	1090	275.23	0.3
BEC34	7270	41.26	1.5	BEC39	1490	201.34	3

1) No. 3, Section 1, Hsinyi Road, Taipei: 22.00-24.00, 03.00-07.00, 09.00-16.00 - V, by QSL-card. - 2) Lanyalif, Shyhlin, Taipei: 22.00-03.00, 10.00-17.30. - 3) No. 3, Shyhfun Road, Taichung: 22.00-24.00, 03.00-07.00, 09.00-17.00. - 4) No. 101, Third Jengjeng Road, Kaohsiung: 22.00-01.00, 03.00-07.00, 09.00-15.30 - V, by QSL-card. - 5) No. 38, Sanmin Str., Hualien: 22.00-24.00, 03.00-07.00, 09.00-17.00. - 6) No. 40, New Mingdiersuen, Tsoying: 22.00-24.00, 03.00-07.00, 09.00-17.00 - V, by QSL-card. - 7) No. 14, Minsheng Road, Maagong, Penghua: 22.00-02.00, 03.00-06.00, 10.00-17.30.

The Military Broadcasting Corps and The Air Force Broadcasting Station are two different organizations. The first belongs to the Political Dept. of Ministry of National Defense, the latter to Headquarters of Chinese Air Force. They are without any relationship in their administration and service.

AIR FORCE BROADCASTING STATION (Military)

FI.: By Go. - ADDR.: 1st and 2nd Dept.: 1507 Chung Cheng Rd., Taipei, Te.: 28981. - L.P.: Station Dir.: C. T. Lou, Dir. Prgr.: T. C. Woo, Dir. Tec.: C. S. Luo.

HOME SCE. in Mandarin: * local ** for China mainland.

*1st Dept.: 22.30-24.00, 03.55-06.00, 09.00-16.00.

BEC70 980 kc 306.1 m 1.5 kW - BEC71 7262 kc 41.32 m 3.5 kW N.: 00.00, 04.10, 09.30, 12.00, 14.00. - L.L.: English: 05.00, 11.30.

**2nd Dept.: 22.00-24.00, 12.00-18.00.

BEC60 1440 kc/s 208.3 m 1.5 kW } N.: 22.10, 12.00, 14.00, 15.00,
BEC61 6105 - 49.14 - 25 - } 16.00, 17.00.
BEC62 9775 - 30.69 - 3.5 - }

ANN.: "Voice of Chinese Air Force". - INT.-SIG.: (2nd Dept.) Sign of Freedom. - V, by QSL-card and/or letter.



PUB.: Prgr.schedule free on request.

ARMED FORCES RADIO TAIWAN (U.S. Armed Forces)

ADDR.: Box 13, APO63, San Francisco, California, USA.
L.P.: St. Mgr.: CWO H. L. Arison Jr. Dir. of Prgr.: J. M. Brooks,
DNC. Dir. Tec.: R. L. Henning, DNC.

D. PRGR. in English: W. 21.55-16.00. Sun. 23.55-16.00.

1560 kc/s 192 m 1 kW - 7215 kc/s 41.58 m 1 kW.

N.: 23.00(W), 01.00, 02.00, 03.00, 06.00, 08.00, 10.00.

ANN.: "Armed Forces Radio Taiwan, in Taipei" followed by time announcement. - V, by QSL-card.

★ CYPRUS ★

L.T.: GMT+2 h. - Pr.L.: Greek, Turkish. - Po.: 564.000. - Revrs.: 100.000. - E.C.: 240 V., A.C., 50 c/s.

CYPRUS BROADCASTING CORPORATION (Go.& Comm.)

FI.: Go. Subsidised and Comm. adv. income. - AD.: 30 min. d. - ADDR.: P. O. Box 824, Nicosia. Cable: Broadcasts. Te.: 5231. - L.P.: Dir. Gen.: V. I. Markides. Ag. Chief Eng.: P.T. Astreos. Secr.: J. Hji Joseph.

HOME SERVICE

GREEK PRGR.:

Nicosia 692 kc/s 434 m 20 kW. - Paphos 915 kc/s 326 m 2 kW.

Limassol 1484 kc/s 202 m 0.5 kW.

W. 05.00-06.00, 10.00-11.45, 15.00-21.00. Sun. 05.00-11.45, 15.00-17.00, 17.30-21.00.

TURKISH PRGR.:

Nicosia 606 kc/s 495 m 20 kW.

W. 05.00-06.00, 10.00-11.45, 15.00-17.00, 17.30-21.00. Sun. 05.00-11.45, 15.00-17.00, 17.30-21.00. - N.: D. 05.30, 06.00 (Sun.), 11.30, 17.30, 20.00.

ENGLISH PRGR.: W. 06.00-10.00 on 606/915 kc/s, D. 11.45-12.30 on all frequencies, D. 17.00-17.30 on 606 kc/s, N.: D. 12.00.

ANN.: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burası Kıbrıs Radyo Yayın Kuruluşu". - V, by letter. - INT.-SIG.:



HQ FORCES BROADCASTING SERVICE. Networks Headquarters, Forces Broadcasting Service, Near East Land Forces, FI.: by the State (Brit. Go.). - ADDR.: British Forces Post Office 53, Nicosia. Cable: HQ Forces Broadcast. Service Cyprus. Te.: Nicosia 3118. L.P.: Chief Broadc.: R.W. Morgan. St. Commander: P. Buckle, Dir. Tec.: J. Bulle. Chief Prgr.: Miss P.A. Livingstone.

STATIONS: 1439 kc/s 208 m 7.5 kW. - 1425 kc/s 210 m 7.5 kW. 90.6 mc/s 20 kW E.R.P.

D. PRGR. in English: W.: 04.00-06.15, 10.30-21.00 (Sat. 22.00). Sun. 04.30-21.00. N.: 04.00 (W), 05.00 (W), 06.00, 11.00, 16.00, 18.00. Wrp.: 04.35 (W), 05.59 (Sun.), and after N. 16.00. - Rel.: Sun. 06.15, 17.15, W. 04.30.

ANN.: "This is the Forces Broadcast. Station, Cyprus". - INT.-SIG.: "Siegfrieds Journey to the Rhine" (Horn theme by Wagner), played on French Horn



Close Down Theme: "Evening Hymn and Last Post".

V, by QSL-card. PUB.: Prgr.-schedule free on request. R. p. - F.P.L.: Replacement with VHF FM tr's 98.2 mc/s 20 kW 1962.

BBC-EAST MEDITERRANEAN RELAY

Relays of the BBC Arabic Service and General Overseas Service (see page 82).

No. Egypt/Israel/Jordan/Lebanon/Syria:

Iraq/Persian Gulf:

Israel/Jordan/Arabia:

Libya/Syria:

Sudan/Egypt:

03.30-03.45**, 03.45-05.45*, 05.45-08.00**, 11.00-21.00*.

* Arabic. ** General Overseas Service.

GOA (Portuguese India)

L.T.: GMT+5 1/2 h. - Pr.L.: Portuguese, Concani, English, Indian/Pakistan Languages. - Po.: 645.000. - Revrs.: 8.367.

EMISSIONA DE GOA (Go., Comm.)

ADDR.: Emissora de Goa, C. de Goa. - L.P.: Dir. J. Mesquitella.

HOME SERVICE: 01.30-09.00, 11.00-18.30.

880 kc/s 340.0 m 5 kW: as above.

1440 - 208.0 - 50 - : 01.30-06.30, 13.30-18.30.

6085 - 49.30 - 10 - : 11.00-18.30.

9690 - 30.96 - 10 - : 01.30-09.00.

15385 - 19.50 - 50 - : 15.30-18.30.

FM: 90.0 mc/s as 880 kc/s, 100 mc/s as 15385 kc/s.

Portuguese: 01.30-02.30, 05.30-06.00, 07.30-08.30, 08.30-09.00*, 12.30-13.00**, 15.30-18.30 - Concani: 11.00-12.30, 13.00-13.30**, 13.30-14.30 - English: 06.30-07.30, 13.00-13.30**, 14.30-15.30 - Marati: 02.30-03.30 - Urdu: 03.30-04.30 - Hindi: 04.30-05.30 - Gujarati: 06.00-06.30.

*)=Armed Forces Prgr. **) = Catholic Prgr.

TESTTRANSMISSIONS: 50 kW: To C. & So. Africa in Concani, Portuguese on 15410 kc/s.

ANN.: P.: "Aqui Portugal-fala a Emissora de Goa". E.: "This is Portugal-Emissora de Goa calling". Concani: "Angasor Portugal-Ulota Emissora de Goa". - V, by QSL-card.

★ HONG KONG (British) ★

L.T.: GMT+8 h. (Su.: Apr.-Oct.+9 h.). - Pr.L.: Chinese, English. - Po.: 3.128.000. - Revrs.: 130.000. - E.C.: 200/346 V., A.C., 50 c/s.

RADIO HONG KONG (Go.)

ADDR.: Mercury House, P. O. Box 200, Kong Hong. Cable: Broadcasts, Hong Kong. Te.: 26822. - L.P.: Dir. of Broadc.: D. E. Brooks. Dir. Prgr.: Chinese: N. Y. Chow. English: T.A. Birch. Dir. Tec.: R. Winyard.

HOME SERVICE:

English: ZBW 860 kc/s 348.8 m 2 kW - FM 92 mc/s 5 kW: D. 23.00-16.00. N.: 00.00, 05.15, 11.00 (BBC), 13.00 (BBC Newsreel), 15.00 (R. Australia) - Wrp.: 23.58, 10.58, 13.13, 14.58 - French Half Hour: Tues. 09.15 - Portuguese Half Hour: Thurs. 09.15.

DX-LISTENERS CLUB

Breidablikk, Tønsberg, Norway. Published a printed journal "DX-News" and a monthly Tips bulletin free to all members including the Club-Service (logg-sheet, reportcard, letter-paper). Membership fee annually: No. kr. 14.-, Sw. kr. 10.- US \$ 2.50, £ 0/17/0 or 20 IRC. Reduced membership (exc. DX-News): No. kr. 7.-, Sw. kr. 5.-, US \$ 1.50, £ 0/10/0 or 11 IRC.

Hong Kong - India

Chinese: ZEK 640 kc/s 468.7m 2 kW - ZBW 3940 kc/s 76.14 m 2.5 kW - FM: 94 mc/s 5 kW: 23.00-16.00 - N.: 00.00, 05.30, 10.00, 12.00*)
 12.30*) - Wrp.: 23.58, 05.28, 11.58, 15.30
 *) Rel. Far Eastern st. from London.

ANN.: English: "This is Radio Hong Kong". Chinese: "Ni do hai Heung Kong Kwong bor deen toy". - INT.-SIG.: Chimes. - V. by QSL-card. Rp.

HONG KONG COMMERCIAL BROADCASTING CO., LTD.

FL: By adv. - AD.: 10% of broadc. time. - ADDR.: P. O. Box 3000, Hong Kong. Cable: Radiodacs. Te.: 26096. - L.P.: Man. Dir.: G. Ho. Dir. English Prgrs.: N. Demuth. Dir. Chinese Prgrs.: T.P. Kwong. Dir. Sec.: W. S. Ip.

HOME SEC.: 23.00-16.00.
 1050 kc/s 286 m 1 kW: Cantonese - 1530 kc/s 196m 1 kW: English. English: N.: 00.00, 05.15, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00 (News-reel), 16.00 - Wrp.: 00.10, 05.30, 08.30, 10.10, 12.15, 14.15, 16.00 - Cantonese: Wrp.: 23.45, 00.00, 05.28, 12.30 (Sun.), 13.30 (W), 15.00. L.L.: (English): W. 23.30-23.45.

ANN.: E.: "Commercial Radio, Hong Kong". - INT.-SIG.: Chimes. V. by letter.



REDIFFUSION (HONG KONG) LTD. A subsidiary of Rediffusion Ltd. (London (Comm.)) - FL: by subscription charges and adv. - ADDR.: P.O. Box 121, Rediffusion Hse., Gloucester Rd. Cable: Rediffuse. Te.: 72211. - L.P.: Exec. Dir.: G. H. Oldridge. Ch. Eng.: A. T. B. Bardens. A.M.P.E.E., M. Brit. I.R.E. Prod. Mgr. TV: J. Miller. - 3 simultaneous wired broadcasting networks. Originating own prgrs., also relaying "Radio Hong Kong", B.B.C., etc. D. 23.00-15.00.

★ INDIA ★

L.T.: GMT+5½ h. - Pr.L.: English, Hindi, Tamil, Telugu, Assamese, Bengali, Gujarati, Kashmiri, Malayalam, Oriya, Punjabi, Sanskrit, Urdu, Kannada, Marathi. - Po.: 388.000.000. - Rcvrs.: 2.000.000 - E.C.: 220 V., D.C., A.C., 50 c/s.

ALL INDIA RADIO (Go.)

ADDR.: Akashvani (AIR) Headquarters, Akashvani Bhavan, Parliament Str., New Delhi. Cable: "Airgeneral". Te.: 30101. L.P.: Dir. Gen.: B. D. Bharti. Dep. Dir. Gen.: Prgr.: D. V. K. Narayana Menon. Adm.: S. Parameshwaran. Inspection: V. K. Narayana Menon. Dir. Prgr.: P. C. Chatterji. Chief Eng.: A. C. Ramchandani. Dir. News Sec.: M. V. Desai. Dir. External Sec.: Miss M. Masani.

STATIONS: Medium Waves:

North Regional	kc/s	m	kc/s	m
Delhi A	810	370.4	Hyderabad	740 405.4
Delhi B	1070	280.4	Bangalore	610 491.8
Delhi C	1370	219.0	Dharwar	1360 220.6
Lucknow	760	394.7	West Regional	
Allahabad	980	306.1	Bombay A	1040 288.5
Patna	620	483.9	Bombay B	550 545.5
Jullundur	710	422.5	Bombay C	1230 243.9
Jaipur	1120	267.9	Nagpur	590 508.5
Ajmer	600	500.0	Ahmedabad	850 352.9
Indore	650	461.5	Baroda	850 352.9
South Regional			Poona	780 384.6
Madras A	720	416.7	Rajkot	910 329.7
Madras B	1420	211.3	East Regional	
Tiruchirappalli	940	319.1	Calcutta A	670 447.8
Vijayawada	840	357.1	Calcutta B	1000 300.0
Trivandrum	660	454.5	Cuttack	965 310.9
Kozhikode	680	441.2	Gauhati A	730 411.0
Trichur	580	517.2		

Short Waves: Delhi VUD: 10/20/100 kW:

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3365	89.15	7120	42.13	7290	41.15	9630	31.15	9765	30.72
4760	63.03	7150	41.96	7295	41.12	9635	31.14	11710	25.62
4940	60.73	7155	41.93	9505	31.56	9670	31.02	11715	25.61
4960	60.48	7170	41.84	9530	31.48	9680	30.99	11730	25.58
5955	50.38	7180	41.78	9565	31.36	9705	30.91	11740	25.55
5975	50.21	7185	41.75	9575	31.33	9720	30.86	11760	25.51
6040	49.67	7190	41.72	9585	31.30	9730	30.83	11780	25.47
6190	48.47	7225	41.52	9605	31.23	9740	30.80	11785	25.46
7105	42.22	7235	41.47	9620	31.19	9750	30.77	11790	25.45

kc/s	m	kc/s	m	kc/s	m	kc/s	m
11800	25.42	15105	19.86	15250	19.67	17740	16.91
11805	25.41	15120	19.84	15270	19.65	17760	16.89
11810	25.40	15130	19.83	15290	19.62	17780	16.87
11830	25.36	15140	19.82	15310	19.60	17795	16.86
11850	25.32	15150	19.80	15365	19.52	17800	16.85
11890	25.23	15160	19.79	15370	19.52	17815	16.84
11895	25.22	15170	19.78	15400	19.48	17820	16.84
11920	25.17	15190	19.75	17705	16.94	17780	16.83
11925	25.16	15225	19.70	17720	16.93	17850	16.81
11940	25.13	15235	19.69	17725	16.93	17855	16.80
11955	25.09	15240	19.69	17730	16.92	17885	16.78
12020	24.96	15245	19.68	17735	16.92	21560	13.91

Lucknow (No. Reg. Sec.) 10 kW: 7250 kc/s 41.38 m - 4880 kc/s 61.48 m - 6170 kc/s 48.62 m.

Ranchi (No. Reg. Sec.) 2 kW: 4850 kc/s 61.86 m - 7160 kc/s 41.90 m.

Simla (No. Reg. Sec.) 2.5 kW: 3223 kc/s 93.09 m - 4760 kc/s 63.03 m.

Bhopal (No. Reg. Sec.) 10 kW: 4820 kc/s 62.24 m - 5990 kc/s 50.08 m - 7160 kc/s 41.90 m.

Madras (So. Reg. Sec.): VUM - 4920 kc/s 60.98 m - 7260 kc/s 41.32 m

Hyderabad (So. Reg. Sec.) 10 kW: 4990 kc/s 60.12 m - 6120 kc/s 49.02 m - 7140 kc/s 42.02 m.

Bombay (West Reg. Sec.): VUB - 4840 kc/s 61.98 m - 6065 kc/s 49.46 m - 7240 kc/s 41.44 m.

Calcutta (Ea. Reg. Sec.): VUC - 4940 kc/s 60.73 m - 6010 kc/s 49.92 m - 7210 kc/s 41.61 m - 9530 kc/s 31.48 m.

Gauhati (Ea. Reg. Sec.): 10 kW: 3375 kc/s 88.89 m - 4775 kc/s 62.83 m - 6130 kc/s 48.94 m - 7150 kc/s 41.96 m - 7280 kc/s 41.21 m.

HOME SERVICES

NORTH REG. SCE. (Gujarati, Marathi, Kannada, Hindi, English):

Delhi A: 810 kc/s: D.: 01.00-03.30, 07.00-08.30, 12.25-17.30 - 4960 kc/s: Morning up to 02.15 - 7290 kc/s: after 02.30, Afternoon up to 08.00 - 6190 kc/s: Evening up to 13.00 - 3365 kc/s: after 14.30.

Delhi B: 1070 kc/s: 01.00-03.30, 07.30-08.30, 12.25-17.30 - 7290 kc/s: Afternoon after 08.00 - 3365 kc/s: 13.15-14.30 - 7120 kc/s: 13.15-14.15.

Delhi C: 5955 kc/s: 14.15-15.15

Lucknow: 760 kc/s: 01.00-03.30, 07.00-09.00, 12.30-17.30 - 4880 kc/s: Morning up to 02.15, after 13.15 - 7250 kc/s: after 02.30 and Afternoon - 6170 kc/s: Evening up to 13.00.

Patna: 620 kc/s: 01.00-03.30, 07.00-09.00, 12.00-17.00.

Ranchi: 4850 kc/s: Evening.

Jullundur: 710 kc/s: 01.30-04.00, 06.30-08.30, 12.30-17.00(Sat. 17.30).

Jaipur & Ajmer: 1120/600 kc/s: 01.30-03.00, 07.00-08.30, 12.30-16.30 (Sat. 17.30).

Simla: 4760 kc/s: Morning - 3223 kc/s: Evening.

Indore: 650 kc/s: 01.30-03.30, 07.00-08.30, 12.30-16.30.

Bhopal: 5990 kc/s: Morning - 7160 kc/s: Afternoon - 4820 kc/s: Evening.

SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English):

Madras A: 720 kc/s: 01.25-02.45, 07.00-09.10, D. 12.00-17.00(Sat. 17.30).

Madras B: 1420 kc/s: 01.25-02.45, 06.30-09.10, 12.00-17.00(Sat. 17.30) - 7260 kc/s: Morning & Afternoon - 4920 kc/s: Evening.

Tiruchirappalli: 940 kc/s: 01.30-02.45, 07.00-09.15, 11.15-16.30(Sat. 17.30).

Vijayawada: 840 kc/s: 01.00-03.00, 07.00-08.30, 12.30-17.00(Sat. 17.30).

Trivandrum/Kozhikode/Trichur: 660/680/580 kc/s: 01.45-03.15, 07.00-08.20, 12.00-16.30(Sat. 17.30).

Hyderabad: 740/6120 kc/s: 01.00-03.15 - 740/7140 kc/s: 07.00-09.20 - 740/4990 kc/s: 12.30-17.00.

Bangalore: 610 kc/s: 01.30-03.00, 06.30-08.30, 12.30-17.00(Sat. 17.30).

Dharwar: 1360 kc/s: 01.30-03.30, 12.30-17.00(Sat. 17.30).

WEST REG. SCE. (Gujarati, Marathi, Kannada, Hindi, English):

Bombay A: 1040 kc/s: 01.00-03.30, 06.30-09.00, 12.00-17.30 - 7240 kc/s: Morning (after 04.30).

Bombay B: 550 kc/s: 01.30-04.00, 06.30-09.00, 12.00-17.30 - 4940 kc/s: Morning up to 02.15 - 7240 kc/s: 02.30-04.00, 06.30-09.00, 10.30-11.30 - 6065 kc/s: Evening.

Nagpur: 590 kc/s: 01.45-03.15, 05.30-06.00, 07.00-08.30, 12.30-17.00 (Sat. 17.30).

Ahmedabad/Baroda: 850 kc/s: 01.30-03.30, 07.00-08.30, 12.00-17.00.

Poona: 780 kc/s: 01.30-03.30, 07.00-08.30, 12.30-17.00.

Rajkot: 910 kc/s: 01.30-03.30, 12.00-17.00(Sat. 17.30).

EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English):

Calcutta A: 670 kc/s: 01.30-03.30, 07.00-09.30, 11.30-17.00 - 6010 kc/s: up to 03.30, and Evening - 9530 kc/s: after 03.30 and Afternoon.

Calcutta B: 1000 kc/s: 01.30-03.30, 07.00-09.30, 11.30-17.00 - 7210 kc/s: up to 12.40 - 4940 kc/s: after 13.00.

Cuttack: 965 kc/s: 01.15-03.30, 07.30-08.30, 12.00-16.15.
Gauhati A: 730 kc/s: 01.15-03.30, 03.45-08.30, 12.00-16.00(Sat. 17.30) - 7280 kc/s: Morning+Afternoon - 3375 kc/s: Evening.
Gauhati B: 6130 kc/s: Morning - 7150 kc/s: Evening up to 13.15 - 4775 kc/s: after 13.30.

HOME NEWS in English:

02.30: Delhi B 49, 41, 31, 25, 19, 16 m.b. - Lucknow 41 m.b. - Simla 63 m.b. - Bhopal 49 m.b. - Bombay A - Madras B 41 m.b. - Hyderabad 49 m.b. - Calcutta B 41 m.b. - Gauhati 41 m.b. and all m.w. st.
08.00: Delhi B 41, 31, 25, 19, 16 m.b. - Bombay A, Madras B 41 m.b. - Calcutta B 41 m.b.
12.30: Delhi B 41, 25, 19 m.b. - Bombay A - Madras B 60 m.b. - Calcutta B 41 m.b.
15.30: Delhi B 63, 49, 41, 31 m.b. - Lucknow 61 m.b. - Ranchi 61 m.b. - Simla 93 m.b. - Bhopal 62 m.b. - Bombay A, Madras B 60 m.b. - Hyderabad 60 m.b. - Calcutta A+B 60, 49 m.b. - Gauhati 60 m.b. and all m.w. st's.

ALL INDIA VARIETY PRGR. (Vividh Bharati)

Short Wave Service: D.: Bombay/Madras: 01.30-03.30 on 7120/9590 kc/s, 05.30(Sun. 04.45)-06.30 on 9590/11870 kc/s, 08.30-09.30 Sun. 10.00 on 9590/11830 kc/s, 13.00-16.15 on 7260/9550 kc/s - Bombay: 11.00-13.15(Sun. 12.45) on 9550 kc/s. - Sat.: Delhi C: 16.15-17.30 on 5955 kc/s - Madras: 16.30-17.30 on 7260 kc/s. - Sun.: Delhi A: 08.30-10.00 on 9590/11830 kc/s.

FORCES PRGR. (in Hindi/Gorkhali): 13.15-14.15 on 1070/3365/7120 kc/s (Delhi B).

SPECIAL PRGR. FOR ANDAMAN AND NICOBAR ISLANDS (from Delhi): 09.00-09.30 (Sat. only) on 15310/17705 kc/s.

EXTERNAL SERVICES

GENERAL SERVICE (for Indians Overseas):

So. Ea. Asia	L.	kc/s	N.
23.15-00.15	Hindi	7155/9530/11785/15250	23.20-23.29
00.15-01.15	Tamil	9530/11785/15250	00.16-00.25
11.30-12.30	Tamil	11760	-
Ea. Africa, Mauritius			
03.45-04.15	Hindi	17855/21620	03.50-04.00
04.15-04.30	Gujarati	17855/21620	04.15-04.30
04.30-04.40	English	17855/21620	04.30-04.40
15.45-15.55	English	15105/17830	15.45-15.55
16.30-17.15	Gujarati	11790/15105	16.31-16.40
17.15-18.00	Konkani	11790	17.50-18.00
17.45-18.45	Hindi	9680/15105	17.50-18.00
Fiji Islands			
07.00-08.00	Hindi	17705/21700	-

EASTERN SERVICE

01.30-02.00	Nepali	7225/9630	01.35-01.40
Burma			
00.40-01.15	Burmese	9765/11895	00.40-00.50
11.15-12.15	Burmese	17705/21690	11.16-11.25
China			
11.45-12.30	Cantonese	11830/15105	11.46-11.55
12.30-13.15	Kuoyu	11830/15105	12.31-12.40

No. Ea. Asia			
10.00-11.00	English	15105/17855/21615	10.01-10.10
Australia, New Zealand			
10.00-11.00	English	15310/17705	10.01-10.10

Bhutan, Sikkim, etc.			
12.30-13.15	Tibetan	11805/9705	12.45-12.55
Indonesia			
22.45-23.00	Indonesian	9530/11710	22.46-22.55
12.15-13.15	Indonesian	17800/21690	12.16-12.25

Ea. Asia			
11.15-11.30	French	17740/21580	11.19-11.29
So.-Ea. Asia			
00.30-00.40	English	9765/11895	00.30-00.40
13.30-15.00	English	15365/17705	13.31-13.40

WESTERN SERVICE

Afghanistan			
02.45-03.00	Pushtu	5975/7225	02.49-02.59
14.45-15.30	Pushtu	7225	14.50-15.00
Iran			
03.45-04.00	Persian	15190/17830	03.50-03.59
*16.15-17.15	Persian	7225/9680	16.16-16.25
We. Asia			
05.00-05.30	Arabic	15190/17705	05.05-05.15
17.30-18.30	Arabic	7190/9565	17.40-17.50
18.45-19.30	French	7190/9565	18.50-19.00
Portugal			
19.00-19.30	Portuguese	9635/7150	19.01-19.10
U.K., We. Europe			
19.45-20.45	English	7235/9635	19.46-19.55
18.45-19.30	French	7190/9565	18.50-19.00

Ea. Africa	L.	kc/s	N.
15.55-16.30	Swahili	15105/17830	15.56-16.06
We. Africa			
19.45-20.45	English	11955/15105	19.46-19.55
* Exc. Saturdays.			

The frequencies and wavelengths given above are those AIR expects to use during the period Oct. 1961 and onwards. There will, however, be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes. Detailed information can be obtained from the Programme Journal.
ANN.: Home Sec.: "This is All India Radio". External Sec.: "This is Delhi calling in the External Services of All India Radio".

INT.-SIG.: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, cello and tampura.



V. by QSL-card. - PUB.: "India Calling" free of charge. - Weekly prgr.journal in English and fortnightly prgr.journals in Hindi, Urdu, Tamil, Telegu, Gujarati and Bengali. Requests for free supply of copies may be made either to the Director of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned. For Home prgr. journals request may be made to the Director General, All India Radio, New Delhi.

RADIO KASHMIR

SRINAGAR A: 1490 kc/s 201.3 m
In English, Kashmiri, Urdu: 02.00-04.00, 07.00-08.50, 12.15-17.30.
SRINAGAR B: 6110 kc/s 49.10 m: Morning+Evening up to 13.15. - 7270 kc/s 41.27 m: Afternoon - 3277 kc/s 91.56 m: after 13.20.

JAMMU: 990 kc/s 303.0 m: 02.00-03.30, 06.30-08.00, 13.00-17.30 - 4950 kc/s 60.61 m: Morning - 5960 kc/s 50.34 m: Afternoon - 3345 kc/s 89.69 m: Evening.

★ INDONESIA ★

L.T.: see Time Table. - Pr.L.: Indonesian. - Po.: 92.000.000. - Rvrs.: 1.250.000. - E.C.: 125/220 V., A.C., 50 c/s.

RADIO REPUBLIK INDONESIA (Go.)

ADDR.: P.O. Box 157, Djakarta. Cable: RRI. Te.: GBR 5751.
L.P.: Dir. Gen.: R. Maladi. Vice Dir. Gen.: Soekirman. Dir. Home Sec.: M. Arief. Dir. Overseas Sec.: R. Soetojo. Dir. News Sec.: Harto (Acting). Dir. Tec. Sec.: R. M. Soenario. Dir. Gen. Affairs: S. K. Mahardjo. Dir. Publ. Relations: R. Hardjodarsono.
Stations: Bandung: A. F. Mardai (Acting) - Semarang: R. M. Kindarsy - Solo: Soemarmo - Surabaya: R. M. Sachlan - Padang: T. Harahap (Acting) - Bukittinggi: A. Gus (Acting) - Palembang: M. Koesomo - Bandjarmasin: Djaswadi - Denpasar: Soetarjo - Amboina: F. P. Likumahwa - Pontianak: Soedibjo (Acting) - Kotaradja: Twk. Mahmud - Menado: Soedomo - Sibolga: Soedibjo (Acting) - Tandjung Pinang: Soemitro - Tjirebon: Soepardjo Oetjo - Ternate: Vacant - Djember: K. Alibari - Madiun: Mardjuki - Kupang: Amirudin - Soa Siu: Soegiono - Gorontalo: Vacant - Mataram: Soejadi - Medan: L. S. Toenaro - Pakan Baru: R. Hutape (Acting) - Makassar: A. Hamid - Jogjakarta: R. B. K. Naftali - Samarinda: S. Timur - Singaradja: Vacant - Sumenep: R. Soerjono (Acting).

HOME SERVICES

Djakarta (Java Central Station)	Call	kc/s	m	kW
	YDB	2460	121.95	1
	YDD	3277	91.54	1
	YDB4	3915	76.64	7.5
	YDB2	4805	62.42	20
	YDF	6045	49.63	100
	YDB3	7270	41.26	7.5
	YDE	11770	25.49	7.5
	YDC	15150	19.80	7.5
Bandung (W. Java)				
	YDA2	2420	123.96	0.25
	YDA	3205	93.60	10
	YDA3	4945	60.67	10
Djember (E. Java: relay)				
	YDI	2330	128.74	0.3
	Call	kc/s	m	kW
	Medan (N. Sumatra)			
	YDP2	3395	88.37	1
	YDP	5030	59.64	7.5
	YDP3	7110	42.19	20
	Sibolga (Sumatra: relay)			
	YDM6	2330	128.5	1
	YDM7	3237	92.66	1
	Bandjarmasin (Kalimantan)			
	YDO	3250	92.31	10
	YDO2	5970	50.25	1
	Pontianak (Kalimantan)			
	YDW	2350	127.6	1
	YDW2	3375	88.89	5
	Samarinda (Kalimantan: relay)			
	YDY	3295	91.00	1

Indonesia - Iran

Call	kc/s	m	kW	Call	kc/s	m	kW
Jogjakarta (C. Java)				Makassar (Sulawesi)			
YDJ3	2350	127.65	1	YDQ4	2490	120.5	0.3
YDJ	5047	59.43	7.5	YDQ	4750	63.16	3
YDJ2	7255	41.36	20	YDQ3	7295	41.12	20
Madun (E. Java: relay)				YDQ2	9550	31.41	0.5
YDG	3286	91.26	0.3	Menado (Sulawesi)			
Semarang (C. Java)				YDS	3214	93.34	1
YDH	2490	120.48	1	YDS2	5990	50.08	1
YDH2	3935	76.24	5	Gorontalo (Sulawesi)			
YDH3	7210	41.61	5	YDS	4900	61.22	1
Surabaya (E. Java)				Denpasar (Bali)			
YDI3	2370	126.50	1	YDU7	2420	123.96	1
YDI2	3975	75.48	10	YDU2	3945	76.05	10
YDI4	6120	49.02	5	YDU6	7118	42.14	10
Surakarta (C. Java)				Ambon (Maluku)			
YDG2	2400	125.0	1	YDR3	3241	92.56	10
YDG3	4875	61.54	10	YDR2	7140	42.02	1
Tjirebon (W. Java: relay)				Ternate (Maluku: relay)			
YDA6	2390	125.5	0.3	YDZ	2460	121.95	1
Padang (S. Sumatra)				YDZ2	3915	76.64	5
YDL2	2480	120.90	1	Tdi., Pinang (Sumatra: relay)			
YDL	3960	75.76	10	YDX	4930	60.85	1
YDL	6170	48.62	10	Kupang (Nusa Tenggara)			
Palembang (S. Sumatra)				YDV	3259	92.05	0.3
YDK2	2430	123.50	1	Mataram (Nusa Tenggara)			
YDK	4855	61.79	10	YDX	3223	93.09	1
Bukittinggi (N. Sumatra)				Singaradja (Nusa Tenggara)			
YDM	4910	61.10	0.3	YDU	4840	61.98	0.3
Kotaradja (N. Sumatra)				Sumenep (Madura)			
YDN	2390	125.50	0.1	YDI20	3355	89.41	0.3
YDN2	4985	60.18	1	Soa Siu (West Irian Province)			
Pakanbaru (N. Sumatra)				YDT	3960	75.75	1
-	5990	50.08	1				

National Prgr. (Djakarta): 22.28-23.45 (Sun. 23.28-04.30) on 2460/4805/6045 kc/s, 05.27-06.45 (Sun. 04.30-06.45) on 2460/11770/15150 kc/s, 09.30-15.30 on 4805/6045 kc/s (from 11.30 also on 2460 kc/s), 15.30-16.30 on 4805 kc/s.
N.: W.: 22.30, 23.30, 04.30, 05.30, 11.30, 12.30, 14.30. Sun.: 23.30, 00.30, 04.30, 05.30, 11.30, 12.30, 14.30. - L.L.: English: Sun., Mo., Thurs. 13.30. Indonesian: Wed., Fri., Sat. 13.30.
Local Prgr. (Djakarta): 09.30-11.30 on 2460 kc/s.
Third Prgr. (Djakarta): 22.28-23.30 on 3277/3915 kc/s (Sun. 23.28-02.30 on 3277/7270 kc/s), 09.30-15.30 on 3277/3915 kc/s.
Bandung, Jogjakarta, Semarang, Surabaya, Surakarta, Tjirebon, Bandjarmasin, Pontianak: W.: 22.27-23.45, 05.27-06.45, 09.27-15.30. Sun.: 23.27-06.45, 09.27-15.30.
Padang, Bukittinggi, Kotaradja: W.: 23.27-00.45, 06.27-07.45, 10.27-16.30. Sun.: 00.27-07.45, 10.27-16.30.
Djember, Madun: D.: 22.27-23.45, 09.27-15.30. Sun.: 23.27-06.45, 09.27-15.30.
Gorontalo, Kupang: D. 09.57-14.00. - Ternate, Soa Siu: 09.27-14.30.
Palembang: W.: 22.57-00.15, 05.57-07.15, 09.57-16.00. Sun.: 23.57-00.45, 09.57-16.00.
Medan: W.: 23.27-01.30, 06.27-08.15, 10.27-16.30. Sun.: 00.27-08.15, 10.27-16.30.
Sibolga: W.: 23.27-00.45, 10.27-16.30. Sun.: 00.27-01.45, 10.27-16.30.
Makassar: W.: 21.57-23.15, 04.57-06.45, 08.57-15.00. Sun.: 22.57-06.15, 08.57-15.00.
Menado: W.: 22.00-23.15, 05.00-06.45, 09.00-15.00. Sun.: 23.00-06.15, 09.00-15.00.
Denpasar: W.: 22.25-23.45, 05.25-06.45, 09.30-15.30. Sun.: 23.25-06.45, 09.30-15.30.
Ambon: W.: 21.30-22.45, 04.27-05.45, 08.30-14.30. Sun.: 22.30-05.45, 08.30-14.30.
Tdi., Pinang: D. 10.27-16.30. - Mataram: D. 10.27-14.30. - Singaradja: D. 10.27-14.30 (relay).
Sumenep: D.: 22.27-23.45, 09.27-15.30. Sun.: 23.27-01.30, 09.27-15.30.
ANN.: Nat. Prgr.: Indonesian: "Inilah Radio Republik Indonesia di..." (name of the station).
INT.-SIG.: Nat. Prgr.:



played on Hammond organ by Sudarnoto. V. by QSL-card or letter.

FOREIGN SERVICE FROM DJAKARTA

YDD	kc/s	m	kW	YDF2	kc/s	m	kW
YDD	1111	270.0	2.5	YDE	11710	25.62	100
YDD	3277	91.55	1	YDE	11770	25.49	7.5
YDF5	7220	41.55	7.5	YDF2	11785	25.46	100
YDB3	7270	41.27	7.5	YDF3	11795	25.43	20
YDF6	9585	31.30	50	YDF2	11825	25.37	100
YDF6	9710	30.90	50	YDC	15150	19.80	100
YDF8	9865	30.40	50	YDF4	17810	16.84	50

English: 11.00-12.00 (Au., NZ., Pa.), 14.30-15.30 (So. Ea. As., India) 9585/11785 kc/s; 19.00-20.00 (Eu., NZ.) 9865/11710 kc/s.
French: 15.30-16.30 (Indo-China, So. Ea. As.) 1111/3277/7270 kc/s; 17.00-18.00 (Eu., M.E., Af.) 9865/11710 kc/s.
Indonesian: 18.00-19.00 (M. E., Eu.) 9865/11710 kc/s; 01.00-02.00 (Am., So. Ea. As.) 9585/11825 kc/s.
Chinese: 12.00-13.00 (Ea. As.) 9585/11825 kc/s.
Arabic: 13.00-14.00 (So. Ea. As.) 9585/11825 kc/s; 16.15-17.00 on 9865/11795 kc/s.
Hindi: 15.30-16.00 (So. & So. Ea. As., Af.) 9585/11825 kc/s.
Urdu: 14.00-14.30 (So. & So. Ea. As.) 9585/11825 kc/s.

ENGLISH PRGR.

N.: 11.15, 14.45, 19.15. - "Indonesia in Word and Music": Mo. 11.42, 15.12, 19.42. - "From Indonesian History": Tues.: 11.35, 15.05, 19.35. - "My Country and my People": Thurs.: 11.35, 15.05, 19.35. - "Indonesian Music": Sun.: 11.27, 14.57, 19.27. Fri.: 11.02, 14.32, 19.02. Sat.: 11.43, 15.13, 19.43. - "Turntable Time": Tues.: 11.43, 15.13, 19.43. (Request Prgr. consisting of Western songs and popular Indonesian tunes).

INDONESIAN PRGR.: N.: 18.15, 18.55, 01.15, 01.55.

ANN.: E.: "This is the Voice of Indonesia broadcasting from Djakarta". F.: "Ici Djakarta, la voix de l'Indonésie".

INT.-SIG.: Some instrumental music in accordance with the genre of the next programme. - V. by QSL-card or letter. Listeners rep.s are welcome.

PUB.: Weekly: "Pedoman Radio", "Berita Radio" (home prgr.). - Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesian, Hindi, Urdu, Chinese, Arabic, English, French, Dutch); "Saut Indonesia" in Arabic. - Write to "Voice of Indonesia", RRI, P.O. Box 157, Djakarta.

★ IRAN ★

L.T.: GMT + 3½ h. - Pr.L.: Persian. - Po.: 20.000.000. - Rcvsr.: 934.821. - E.C.: 220 V., A.C., 50 c/s.

GENERAL DEPARTMENT OF PUBLICATIONS AND BROADCASTING (Go.)

Fl.: By Go. - AD.: Allowed, income goes straight to the Treasury. D. four times (resp. 2, 2, 2, 15 mins.).

ADDR.: Radio Iran, Meidan Ark, Tehran. Cable: Publications Broadcasting. Te.: 51161. - L.P.: Deputy Prime Minister: H. E. N. Moinian. Dir. Tec.: M. R. Atefi.

HOME SERVICE:

RADIO IRAN: D. 24 h. in Persian.
1338.5 kc/s 224 m 100 kW - 7085 kc/s 42.32 m 100 kW
3840 - 78.13 - 20 - 9660 - 31.06 - 100 -
01.30-06.30 on 1338.5/3840/7085 kc/s, 08.00-12.15 on 3840/9660 kc/s, 17.30-20.30 on 3840 kc/s, 20.30-01.30 on 1338.5 kc/s.
N. in Persian: 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 08.30, 09.30, 10.30, 12.30, 13.30, 15.30, 16.30, 19.30, 20.30, 21.30, 22.30, 23.30.
Folklore Music: D.: 09.33, 15.00, 17.00, 21.33.

RADIO TEHRAN in Persian:

895 kc/s 335.2 m 50 kW: 06.30-09.30, 12.30-17.30.

FOREIGN SERVICE:

3840 kc/s 78.13 m 20 kW - 9660 kc/s 31.06 m 100 kW
7085 - 42.32 - 100 - 15105 - 19.83 - 100 -
To M. East: D. 12.00-12.15 in Urdu on 1338.5/3840/9660 kc/s, D. 17.30-18.30 in Kurdish, D. 18.30-19.15 in Arabic on 895/7085 kc/s. To Europe: 20.00-21.00 on 895/15105 kc/s: Russian 20.00, Turkish 20.15, French 20.30, English 20.45.
ANN.: E.: "This is Tehran Calling". F.: "Ici Tehran". Rus.: "Govorit Tehran", Turkish: "Burası Tehran". - V. by letter.
INT.-SIG.: Iranian melody on piano (Beginning of the "Mahour" one of the seven sets of Iranian Music).



REGIONAL STATIONS

R. Tabriz: 640 kc/s 468 m 5 kW - 6155 kc/s 48.74 m 7.5 kW: 02.25-05.00, 07.25-12.15, 12.55-18.30. - R. Rezaieh: 1000 kc/s 300 m 0.5 kW - 8040 kc/s 37.31 m 0.5 kW: 11.55-17.00. - R. Isfahan: 1440.2 kc/s 208 m 1 kW: 06.25-08.35, 12.25-17.30. - R. Zahedan: 720 kc/s 417 m 1 kW: 13.25-17.30. - R. Sanandaj: 6700 kc/s 44.44 m 0.4 kW - 920 kc/s 326 m 1 kW: 02.57-04.30, 13.30-17.30. - R. Kermanshah: 1090 kc/s 275 m 1 kW: 13.25-18.30. - R. Gorgan: 1466.8 kc/s 205 m 1 kW: 06.23-17.30. - R. Shiraz: 1060 kc/s 285 m 1 kW: 12.55-18.00. - R. Rasht: 680 kc/s 440 m 1 kW: 13.57-17.30. - R. Kerman: 1190 kc/s 252 m 1 kW: 13.57-18.00. - R. Mashad: 1100 kc/s 272 m 1 kW 13.27-17.30. - R. Ahwaz: 1390 kc/s 215.8 m 100 kW: 12.57-19.00.

★ IRAQ ★

L.T.: GMT+3 h. - Pr.L.: Arabic, Kurdish, Turkuman. - Po.: 7,000,000 - Rcvrs.: 150,000. - E.C.: 200 V., A.C., 50 c/s.

BROADCASTING STATION OF THE REPUBLIC OF IRAQ (Go.)

ADDR.: Broadcasting House, Salhiya, Baghdad. - L.P.: Minister of Guidance: Dr. Faisal Al-Samir.

STATIONS:

908 kc/s 330.0 m 200 kW 6030 kc/s 49.75 m 100 kW
1335 - 225.0 - 20 7180 - 41.78 - 100 -
3297 - 91.00 - 16 -

HOME SERVICE in Arabic, Kurdish, Turkuman:

Arabic: 03.30-06.00, 11.00-22.00 on 908/7180 kc/s, 16.00-17.00 on 1335 kc/s, 17.00-21.00 on 1335/3297 kc/s, 21.00-22.00 on 1335/3297/6030 kc/s - Kurdish: 03.30-05.30, 13.00-17.00 on 3297/6030 kc/s - Turkuman: 11.00-13.00 on 3297/6030 kc/s.

FOREIGN SERVICE on 6030 kc/s: 17.00-19.30, 20.00-21.00. English: 20.30-21.00, French: 20.00-20.30, German: 19.00-19.30, Persian: 17.30-18.30, Turkish: 18.30-19.00, Urdu: 17.00-17.30.

ANN.: "Itha" at Al-Jumhuriya Al-Iraqiya Fee Baghdad". (The Broadcasting Service of the Iraqi Republic in Baghdad). - INT.-SIG.: Soft chirps of a mechanical nightingale. - V. by QSL-card. Prgr. schedule monthly.

★ ISRAEL ★

L.T.: GMT+2 h. - Pr.L.: Hebrew, Arabic. - Po.: 2,170,082. - Rcvrs.: 350,000. - E.C.: 220/380 V., A.C., 50 c/s.

ISRAEL BROADCASTING SERVICE (Go.)

FL.: By state, license payments, adv. AD.: 5 min. of prgrs. per h. - ADDR.: Kolyisrael Israel Broadc. Sce., Broadcasting House, Jerusalem. Cable: "Koly Israel". Te.: 24388. - L.P.: Dir.: H. Givton. Vice Dir. Dr. Y. Spiro. Dir. Prgr.: Mrs. L. Porath. Dir. Transcription Sce.: K. Salomon. Dir. Tec.: M. Berman. - Ministry of Posts.

STATIONS Medium Waves:

kc/s	m	kW	Call Prgr.	kc/s	m	kW	Call Prgr.
575	522	50/10	4XB36 A	1097	273.5	1	4XB43 A
656	457	100	4XB47 B	1170	256.4	1	4XB23 A
710	422.5	1	4XB20 B	1205	249	10	4XB35 A
737	407	100/10	4XB34 D	1336.5	224.5	1.5	4XB42 E
847.5	354	1		1358	220	0.5	4XB53 E
1025	292	0.5	4XB48 B				

Short Waves:

9009 33.3 50/7.5 4XB31 C 7189 41.7 20 4XB49 D
9725 30.85 20 4XB51 E

FM: (For radio links only between studios and transmitters).

mc/s kc/s Call mc/s kc/s Call mc/s kc/s Call mc/s kc/s Call
71.5 0.04 4XB45 89.3 0.25 4XB32 93.3 0.25 4XB39 99.3 0.25 4XB55
88.3 0.25 4XB37 90.3 0.25 4XB33 94.3 0.25 4XB52 99.7 0.04 4XB46
88.8 0.25 4XB54 93.1 0.25 4XB38

HOME SERVICES:

Main Prgr. in Hebrew (Prgr. A) on 575/1170/1205/1358/847.5 kc/s: 04.00-06.00, 09.00-12.00, 15.00-21.00. - N.: 04.00, 05.00, 06.00, 11.30, 15.00, 17.00, 19.00, 21.00.

Prgr. in Hebrew, Yiddish, Ladino, French, English, Rumanian, on 656/710/1097 kc/s: 14.00-21.00. Special Prgr. for UN Emergency Forces (in French, English, Swedish): 14.00-15.00. - Light prgrs.' with commercials: 14.00-17.00, 19.30-21.00.

Arabic Prgr.: D on 737/1025/7189/9725 kc/s: 04.30-05.15, 11.15-12.15, 15.30-21.15.

ANN.: Home Sce.: "Kolyisrael Miyerushalayim".

INT.-SIG.: Traditional Bible constellation played on obo strings.



FOREIGN SERVICE on 9009 kc/s (Prgr. C)

To Latin America: 04.15-04.30 Yiddish. - To So. Africa: 16.00-17.00 (Yiddish 16.00, English 16.30) To Europe: 18.00-18.45, 19.00-20.45: 18.00 Moroccan Arabic, 18.15 Persian, 19.00 Rumanian, 19.15 Hungarian, 19.30 Hebrew, 19.45 French, 20.15 English.

To We. Africa: 21.00-22.00 (21.00 French, 21.30 English)

NEWS: English: 16.50, 20.15, 20.44, 21.50. French: 19.45, 20.15, 21.20. ANN.: E.: "This is Kolyisrael the Voice of Israel, Broadcasting from Jerusalem".

INT.-SIG.:



V. by QSL-card. - F.P.L.: FM. Prgr. A - PUB.: "Radio" Kolyisrael weekly.

★ JAPAN ★

L.T.: GMT+9 h. - Pr. L.: Japanese. - Po.: 93,840,000. - Rcvrs.: 11,247,745. - E. C.: 100/200 V., A.C., 50 c/s.

NIPPON HOSO KYOKAI (Public Corporation, non-comm.) (The Japan Broadcasting Corporation).

FL.: The expenses for the domestic service are drawn from licence payments; the expenses for the external services are provided partly by the Go. and partly by licence payments.

ADDR.: No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. - Cable: Radionhk, Tokyo. - Te.: (501)4111.

L.P.: Chairman, Board of Governors: Yujiro Chiba. Pres.: Shinnosuke Abe. Vice Pres.: K. Mizokami. Gen. Man. Dir.'s: Y. Maeda (General Broadc. Adm.), Y. Tanabe, K. Ono. Controllers: Y. Kasuga (Man. Dir.), K. Kawakami, Y. Yoshikawa, H. Sano, H. Goto. Dir. Education: H. Asanuma. Dir. Entertainment: T. Nagasawa. Dir. News: H. Sano. Chief of News Commentator Office: G. Fujise. Dir. Technical Operations: Y. Tsujita. Dir. Prgr. Sce.: Y. Yoshida. Dir. Intern. Broadc.: I. Matsui (Man. Dir.). Dir. Gen. Sce.: S. Kato. Dir. Finance: T. Akimoto. Dir. Engineering: F. Mikuma. Dir. Facilities Construction: U. Tsuji. Dir. Subscription Dept.: S. Kubo. Chief of Radio & TV Culture Research Institute: K. Katagiri. Chief of Techn. Research Laboratories: T. Nomura. Chief of Training Center: Is. Negishi. Chief of Central Publicity Office: T. Matsunaga. Man. Dir.'s: M. Akagi, S. Shimaura, K. Sudo, S. Takano, S. Tochizawa.

STATIONS

MEDIUM WAVES: The medium-wave (535-1650 kc/s) tr's are used for domestic radio service in the 1st and 2nd networks, both extensive enough to place the entire country under coverage.

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Provides assistance and guidance to all foreign correspondents and news agency representatives visiting Iran, including interviews with personalities and visits to historical and development sites, also prepares and distributes publications, documentary films, slides and photographs on Iran. Tel. 56718.

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Japan

Stations	Call	kc/s	kW	Stations	Call	kc/s	kW	Stations	Call	kc/s	kW	Stations	Call	kc/s	kW
Tokyo 1	AK	590	100	Onomichi 1	DP	1200	1	Taira 2	HZ	1540	0.1	Esashi 1	—	1040	0.05
— 2	AB	690	100	— 2	DD	1530	1	Hachinohe 1	TQ	1300	1	— 2	—	1360	0.05
Nagano 1	NK	1320	1	Hofu 1	UG	680	5	— 2	TZ	1530	1	Nayoro 1	CY	540	1
— 2	NB	1530	1	— 2	UC	820	5	Wakamatsu 1	HT	1160	0.1	— 2	AZ	790	1
Niigata 1	QK	850	10	Hamada 1	TS	1040	0.1	— 2	HY	1540	0.1	Nemuro 1	PQ	1040	0.1
— 2	QB	990	10	— 2	TT	1360	0.1	Odate 1	UT	1160	0.1	— 2	PS	1360	0.1
Kofu 1	KG	620	1	Hagi 1	UQ	960	1	— 2	UV	1360	0.1	Nakashi-	—	—	—
— 2	KC	1470	1	— 2	UZ	1600	0.5	Miyako 1	—	1040	0.1	betsu 1	—	1160	0.1
Matsumoto	SG	540	1	Masuda 1	—	1340	0.1	— 2	—	1360	0.1	— 2	—	1540	0.1
— 2	SC	1510	1	— 2	—	1540	0.1	Yonezawa 1	JQ	1040	0.05	Urakawa 1	—	1340	0.1
Iida 1	SQ	1320	0.5	Tsuyama 1	KU	1160	0.1	— 2	JZ	1360	0.05	Kariba 1	—	1160	0.1
— 2	SZ	1530	0.5	— 2	KT	1540	0.1	Yokote 1	—	1040	0.1	Nakaton-	—	—	—
Ina 1	—	1340	0.05	Shobara 1	—	1160	0.05	— 2	—	1540	0.1	betsu 1	—	1040	0.05
— 2	—	1540	0.05	— 2	—	1360	0.05	Shinjo 1	JS	1340	0.05	Matsumae 1	—	1160	0.05
Komoro 1	NQ	1040	0.1	Yonago 1	IQ	1200	1	— 2	JT	1540	0.05	Hiroo 1	—	1040	0.05
— 2	NZ	1540	0.1	— 2	LU	1470	1	Kesennuma 1	HS	1160	0.1	Matsuyama 1	ZK	960	3
Takata 1	QZ	1160	0.1	Tsuwano 1	—	1160	0.1	— 2	HU	1540	0.1	— 2	ZB	1510	1
— 2	QV	1360	0.1	— 2	—	1360	0.1	Ofunato 1	—	1040	0.1	Kochi 1	RK	1150	10
Okaya-Suwa 1	SU	1160	0.1	Kurayoshi 1	—	1040	0.1	— 2	—	1360	0.1	— 2	RB	1430	10
— 2	SI	1360	0.1	— 2	—	1360	0.1	Soma-	—	—	—	Tokushima 1	XK	780	1
Kiso-	—	—	—	Shimono-	UI	1160	0.1	Haramachi 1	—	1160	0.1	— 2	XB	1530	1
Fukushima 1	—	1040	0.1	seki 1	—	—	—	Kuji 1	—	1340	0.1	— 2	HP	1300	1
— 2	—	1470	0.1	Niimi 1	KI	1340	0.1	Hanawa 1	—	1340	0.1	Takamatsu 1	HD	1080	0.5
Ueda 1	—	1340	0.1	— 2	KV	1540	0.1	Tadami 1	—	1040	0.1	— 2	HD	1080	0.5
— 2	—	1470	0.1	Miyoshi 1	—	1440	0.1	Sapporo 1	IK	570	100	Uwajima 1	ZU	1440	1
Fujiyoshida 1	YP	1340	0.1	Iwami 1	—	1340	0.05	— 2	IB	750	100	— 2	ZY	1080	1
Osaka 1	BK	670	100	Kawamoto 1	—	1300	0.05	Hakodate 1	VB	600	1	Niihama 1	ZQ	1340	0.1
— 1	BB	830	100	Kumamoto 1	GB	930	10	— 2	VB	1470	0.5	— 2	ZZ	1540	0.1
Kyoto 1	OK	1300	1	— 2	GK	1350	10	Asahikawa 1	CG	620	1	Imabari 1	ZT	1160	0.05
— 2	OB	1510	1	Fukuoka 1	LK	610	100	— 2	CC	1470	1	— 2	RY	1530	0.5
Fukuchiyama 1	OT	1040	0.1	— 2	LB	870	100	Obihiro 1	OG	780	1	Yawatahama 1	ZS	1340	0.1
— 2	OS	1360	0.1	Kokura 1	SK	1320	0.1	— 2	OC	1080	1	— 2	ZI	1540	0.1
Toyooka 1	BU	1160	0.1	— 2	SB	1530	0.1	Kuchiro 1	PG	840	1	Yusuhara 1	RS	1160	0.1
— 2	BV	1540	0.1	Nagasaki 1	AG	660	1	— 2	PC	1240	1	— 2	—	1360	0.1
Hikone 1	BS	1340	0.1	— 2	AC	1600	1	Kitami 1	KP	700	10	Johen 1	ZV	1340	0.05
Shingu 1	BQ	1040	0.1	Kagoshima 1	HG	980	10	— 2	KD	1260	10	— 2	ZX	1540	0.05
— 2	BY	1360	0.1	— 2	HC	1390	10	Muroran 1	IU	780	1	Ikeda 1	XI	1160	0.1
Maizuru 1	OQ	1340	0.1	Miyazaki 1	MG	620	1	— 2	IT	1080	0.5	— 2	XU	1360	0.1
— 2	OZ	1540	0.1	— 2	MC	790	1	Rumoi 1	IX	600	0.05	Kanonji 1	—	1040	0.1
Tanabe 1	BT	1160	0.1	Oita 1	IP	660	1	— 2	CI	1080	0.05	Mugi 1	—	1040	0.1
— 2	TD	1540	0.1	— 2	ID	790	0.5	Wakkanai 1	IQ	1200	1	Uwa 1	—	1040	0.05
Koza 1	—	1340	0.05	Saga 1	SP	960	1	— 2	IY	1470	0.5	Sukumo 1	—	1040	0.05
Kazumi 1	—	1340	0.1	— 2	SD	1470	1								
Nagoya 1	CK	730	10	Sasebo 1	AT	540	0.5								
— 2	CB	910	10	— 2	AY	790	0.5								
Kanazawa 1	JK	1030	10	Hitooyoshi 1	GQ	1320	0.1								
— 2	JB	1460	10	— 2	GV	1600	0.1								
Shizuoka 1	PK	880	10	Nobeoka 1	MT	540	1								
— 2	PB	1230	10	— 2	MX	1470	1								
Fukui 1	FG	600	1	Saeki 1	—	1160	0.1								
— 2	FC	1530	1	— 2	—	1510	0.1								
Hamamatsu	DG	620	1	Miyakonojo 1	MQ	1160	0.1								
— 2	DC	790	1	— 2	MU	1360	0.1								
Toyama 1	IG	600	1	Hita 1	IV	1040	0.05								
— 2	IC	1530	1	Karatsu 1	SV	1160	0.05								
Takayama 1	QC	620	1	Akune 1	—	1040	0.1								
— 2	CZ	790	0.5	— 2	—	1470	0.1								
Ueno 1	CT	1160	0.1	Kobayashi 1	—	1040	0.1								
Owase 1	CU	1160	0.1	— 2	—	1540	0.1								
— 2	DS	1540	0.1	Nichinan 1	—	1340	0.1								
Tsuruga 1	FT	1040	0.1	— 2	—	1540	0.1								
— 2	FZ	1470	0.1	Takachiho 1	—	1040	0.1								
Obama 1	FY	1160	0.1	Kushima 1	—	1040	0.05								
— 2	FQ	1360	0.1	Shimabara 1	—	1440	0.02								
Toyahashi 1	CS	1160	0.1	Sendai 1	HK	890	10								
— 2	CV	1360	0.1	— 2	HB	1090	10								
Nanao 1	JU	1340	0.1	Akita 1	UK	1290	10								
— 2	JV	1600	0.1	— 2	UB	1520	10								
Nakatsug. 1	—	1160	0.1	Yamagata 1	JG	540	1								
— 2	—	1360	0.1	— 2	JC	1470	1								
Katsuyama 1	—	1160	0.1	Hirosaki 1	RG	1440	0.5								
Wajima 1	—	1160	0.05	— 2	RC	790	0.5								
Kamioka 1	—	1340	0.05	Morioka 1	QG	650	10								
Gujo-	—	—	—	— 2	QC	1170	10								
Hachiman 1	—	1300	0.05	Fukushima 1	FD	620	0.1								
Hagiwara 1	—	1340	0.05	— 2	FP	790	0.1								
Kumano 1	—	1300	0.1	Kooriyama 1	CP	660	1								
Hiroshima 1	FK	770	10	— 2	CD	1510	1								
— 2	FB	1050	10	Aomori 1	TG	960	1								
Okayama 1	KK	720	3	— 2	TC	1510	0.5								
— 2	KB	1600	3	Tsuruoka 1	JP	660	1								
Matsue 1	TK	1110	10	— 2	JD	1470	1								
— 2	TB	1330	10	Kamaishi 1	QS	1200	0.1								
Tottori 1	LG	1300	1	— 2	QT	1470	0.1								
— 2	LC	1530	1	Taira 1	HQ	1040	0.1								

HOME SERVICE:

1ST NETWORK: D. 20.00-15.00 - Japanese Music: Tues. 113.0-11.59, Thurs. 13.30-14.00 - N.: D. 14.55, W. every h. on the h. exc. 11.00, and also every h. half past between 23.00-10.00, exc. 03.30 (W), 04.30 (Mo.), 05.30 (Sat.), 09.30 (Sat.). Mo.-Fri. 10.59, Sun. every h. on the h. exc. 01.00, 02.00, 05.00, 09.00, 11.00 - Mbg.: W. 21.50 - Wrp.: D. 20.57, 21.10, 22.10, 23.59, 02.50, 03.10, 06.00, 08.00, 10.10, 12.05, 13.05, 14.05, Sun. 09.55 - Weather Map: D. 07.05.

2ND NETWORK: D. 20.30-15.00 - Japanese Music: Mo.-Fri. 04.25-05.00, Fri. 12.00-13.00, Sun. 14.00-14.30 - Weather Map: D. 13.00, 00.00 - English N.: 09.00-09.05.

The two networks together are on the air for a grand total of 37.5 h. *) - School prgrs. are specially presented over the 2nd network for 3 h. and 25 min.s between 00.15-04.15.

*) Classified by broadc. hours (%): News 19.5, Social & Culture 38.6, Education 19.1, Entertainment 15.6, Sports 7.2.

FM: JOAK-FMX Tokyo 82.5 mcs, JOBK-FMX Osaka 88.1 mcs/10 kW exp.: W. 09.00-13.00, Sun. 00.00-02.00, 04.00-13.00.

HOME SERVICE RELAYS ON SHORT WAVES:

1st Network: JKH 7230 kc/s 41.49 m: 20.00-22.15, 07.55-10.00 - JKH2 9655 kc/s 31.07 m: 22.25-07.45.

2nd Network: JKI 7285 kc/s 41.18 m: 20.30-10.00.

FOREIGN SERVICE (R. Japan)

I = So. Asian Sec.; II = Middle East & No. African Sec.; III = European Sec.; IV = No. American Sec.; V = Latin American Sec.; VI = No. & Latin American Sec.; VII = Hawaiian Sec.; VIII = Australia, New Zealand Sec.; IX = Korean Sec.; X = Asian Continent Sec.; XI = East Asian Sec.; XII = Philippine & Indonesian Sec.; XIII = Southeast Asian Sec.; XIV = African Sec.; XV = General Sec.

STATIONS: 10/20/50/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6140	48.86	9605	31.23	11800	25.42	15235	19.69
7195	41.70	9675	31.01	11815	25.39	15390	19.49
9505	31.56	11705	25.63	11875	25.26	17755	16.90
9525	31.50	11725	25.59	15135	19.82	17795	16.86
9530	31.48	11780	25.47	15195	19.74	17895	16.76

Times	Sec.	kc/s	Languages
15.00-16.30	I	9525, 11800	a)
16.45-18.45	II	6140, 9525, 11800,	b)
19.00-21.00	III	6140, 9505, 11780,	c)

Times	Sec.	kc/s	Languages
20.00-21.00	XIV	9525, 11875	d)
00.30-01.30	IV	9505, 11780, 15135	e)
03.00-05.00	VI	6140, 9505, 11780, 15235	f)
05.30-07.00	VII	11815, 15235	e)
07.30-08.30	III	11780, 15235, 17890	e)
09.00-10.30	V	9530, 11705, 15390	g)
09.30-10.30	VIII	11875, 15235	n)
10.45-11.45	IX	7195, 9525	h)
11.00-12.30	X	9675, 11705	i)
12.00-14.30	XI	7195, 9525	k)
12.30-14.00	XII	11780, 15135	l)
13.00-16.00	XIII	9675, 11705	m)
00.30-01.30	XV	15195, 17755, 17795	e)
02.00-02.30			e)
03.00-03.30	XV	11725, 15195, 17755	e)
04.00-04.30			e)
05.00-05.30	XV	9505, 11815, 11800	e)
06.00-07.00			e)
08.00-08.30	XV	9505, 11815, 11800	e)
09.00-09.30			e)
10.00-10.30	XV	9505, 9605, 11815	e)
11.00-11.30			e)
12.00-12.30	XV	9505, 9605, 11815	e)
13.00-14.00			e)
15.00-15.30	XV	9505, 9605, 11815	e)
			e)

Languages: a) Hindi, English, Urdu, Bengali - b) Arabic, French, English, Japanese - c) Russian, German, French, Italian, English, Swedish, Japanese - d) English, French, Japanese - e) English, Japanese - f) Spanish, Japanese, English - g) Japanese, Portuguese, Spanish - h) Korean, Japanese - i) Chinese, Russian, k) Japanese - l) English, Indonesian - m) Chinese, French, Vietnamese, English, Thai - n) English.

NEWS: English: 17.55 (II), 19.30 (XIV), 20.25 (III), 00.30 (IV), 04.15 (VI), 05.30 (VII), 07.30 (III), 09.30 (VIII), 12.30 (XII), 14.45 (XIII), 15.30 (I) and in General Sec. at the beginning of each transmission exc. 00.30 in which English News begins at 01.00 - French: 17.20 (II), 20.00 (III), 14.20 (XIII), 19.55 (XIV) - German: 19.30 (III) - Italian: 20.10 (Sun.) (III) - Portuguese: 09.50 (V) - Spanish: 03.00 (VI), 10.20 (V) - Swedish: 20.35 (Wed.) (III).

DX-PRGR. (in English): Every Fri. 04.45 (VI), 06.00 (VII), 10.15 (VIII); Every Sat. 08.00 (III), 13.00 (XII), 14.15 (XIII), 15.50 (I), 18.15 (II); Every Tues. 01.05 (IV).

ANN.: Home Service: The call-sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes, an announcement, "NHK" is made. - On the 1st network, the call-sign and the station name are announced just before timecast. - On the 2nd network, the call-sign and the station name are announced every hour at half past. - Foreign Service: English: "This is Radio Japan, the overseas broadcasting service of NHK: We are broadcasting to..." ("target area") - French: "Ici Radio Japon..." (target area). - German: "Hier ist Tokyo, der japanische Rundfunk..." (target area). - Italian: "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone - Reparto Servizio Internazionale di NHK..." - Spanish: (Aqui Radio Japon...). - Portuguese: "Estão ouvindo a Radio Japão..." - Indonesian: "Inilah Radio Jepang, siaran internasional dari NHK di Tokyo..."

INT.-SIG.: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air. - Foreign Service: Opening music "Sakura":



Interval signal music "Kazoe Uta":



PUB.: Graph NHK (twice a month) - NHK Hoso Bunka or NHK Broadcast Culture (monthly) - Broadcast Engineering (monthly). -

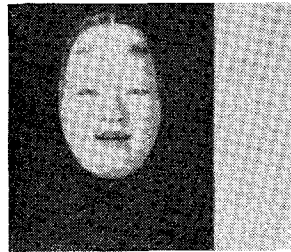
WITH THE NEWS AND VIEWS OF THE FAR EAST

RADIO JAPAN

NHK's International Broadcasting Service

TARGET AREA:

South Asia	Hawaii
Southeast Asia	Latin America
Asian Continent	Europe
Philippine & Indonesia	Middle East & North Africa
Korea	Africa
East Asia	Australia & New Zealand
North America	General Service
North & Latin America	



NATIONAL NETWORKS

Radio Stations: 1st Net 145, 2nd Net 114 TV Stations: General 84, Educational 14 (as of Dec., '61)
NHK (Japan Broadcasting Corporation) No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan

NHK Technical Journal (quarterly) - NHK Year Book (annual) - "R. Japan News" (monthly). Prgr.schedules are published annually in April, when the schedules are revised. The language used is Japanese - The prgr.sched. Overseas Sec. sched. is published every time the prgr.s are changed. The Foreign Sec. sched. is distributed upon request. No return postage required. - V. by QSL-card.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR.: 8-7 Ginza-Nishi, Chuo-ku, Tokyo. Cable: Kyobashi Mim-poren. Te.: 571-7161. - L.P.: Pres.: T. Adachi. Vice-Pres.: N. Shikana. K. Muroya. Man. Dir.: S. Sakai. Secr. Gen.: Y. Isomura.

MEDIUM WAVES: Call: JO...

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) CR	560	10	24) PF	940	3	22) 7B	1220	0.02
2) DF	580	1	25) KR	950	50	31) IR	1250	10
3) JF	740	1	8) WO	1000	1	33) FR	1270	10
4) LR	740	3	26) GF	1000	1	19) HW	1280	1
5) MR	750	3	27) NR	1010	20	32) JR	1280	3
6) CF	760	5	2) DL	1060	0.1	38) LF	1310	50
7) TO	800	0.1	2) DM	1060	0.1	35) ER	1370	10
8) WE	800	0.1	3) JL	1060	0.1	39) UF	1380	20
9) WW	800	0.1	5) MO	1060	0.1	19) TL	1400	1
9) SL	800	0.1	8) WR	1060	0.1	30) VR	1400	3
9) SE	800	0.1	9) SW	1060	0.1	14) IF	1410	10
10) DE	800	0.1	11) BW	1060	0.1	12) YR	1420	3
11) BO	800	0.1	12) YE	1060	0.1	19) QL	1420	1
12) YO	800	0.1	16) HL	1060	0.1	12) SA	1420	0.05
13) AL	800	0.1	19) QN	1060	0.1	19) QM	1450	3
14) IL	800	0.1	22) UE	1060	0.1	41) KF	1450	3
14) TAB	800	0.05	23) -	1060	0.1	40) RF	1480	10
14) IM	800	0.04	24) PL	1060	0.1	15) SF	1490	10
15) OL	800	0.1	28) GO	1060	0.1	18) VF	1500	1
16) HM	800	0.1	28) GE	1060	0.1	19) QF	1500	1
17) ZO	800	0.1	29) AO	1060	0.1	6) -	1560	0.1
18) VL	800	0.1	32) JO	1060	0.1	7) TE	1560	0.1
31) IO	800	0.1	33) FE	1060	0.04	10) DO	1560	0.1
35) EW	800	0.1	33) FO	1060	0.1	11) BE	1560	0.1
9) SO	860	1	34) BL	1060	0.1	13) AM	1560	0.1
19) HE	860	1	35) EO	1060	0.1	15) XO	1560	0.1
20) PR	860	3	29) AR	1070	10	18) VM	1560	0.1
16) HF	900	3	9) SR	1100	1	20) PO	1560	0.1
17) ZR	900	3	34) BF	1100	5/3	22) UO	1560	0.1
19) HO	900	1	13) AF	1120	3	23) -	1560	0.1
16) -	920	0.05	28) GR	1120	3	26) GL	1560	0.1
21) EF	920	3	36) OR	1130	50	29) AE	1560	0.1
21) 8AB	920	1	11) BR	1140	10	29) -	1560	0.05
22) MF	920	1	19) HR	1190	10	30) VE	1560	0.1
23) NF	920	1	37) OR	1210	20	32) -	1560	0.1
24) PM	920	0.1	10) DR	1220	3	41) KL	1560	0.1
7) TR	940	3	22) UR	1220	3	35) EW	1560	0.1

SHORT WAVES

Call	kc/s	m	kW	Call	kc/s	m	kW
42) Z	3925	76.43	50	42) Z2	6055	49.55	50/10
42) Z4	3945	76.05	10	42) Z3	9595	31.27	50/10

- 1) R. Kansai Lt., 3-7 Isonare-cho, Kobe. Te.: 7-4321. - L.P.: Pres.: K. Tanaka. Dir. Tec.: H. Manabe. - D. PRGR.: 20.30-16.00. - V. by QSL-card.
- 2) Iwate Broadc. Co., Morioka. - L.P.: Pres.: T. Ota.
- 3) R. Yamanashi Broadc. System, 288 Hyakukoku-machi, Kofu City. - L.P.: Pres.: J. Noguchi. - D. PRGR.: 20.30-15.00.
- 4) Koka-Nihon Broadc. Co., Toyama. - L.P.: Pres.: S. Yokoyama.
- 5) Hokuriku Broadc. Co., Kanazawa. - L.P.: Pres.: I. Saga.
- 6) R. Minami-Nihon, 17 Kohai-cho, Kagoshima. - L.P.: Pres.: S. Hanataka. Mgr.: K. Ijuin. Dir. Tec.: H. Yamamoto. - D. PRGR.: 20.30-14.30. - V. by QSL-card.
- 7) Akita Broadc. System, 14, Akita. - L.P.: Pres.: Y. Takehana.
- 8) R. Fukushima Broadc. Co., Fukushima. - L.P.: T. Tobishima.
- 9) Shin-Etsu Broadc. Co., Nagano. - L.P.: Pres.: J. Katsuta.
- 10) Broadc. System of Niigata, Niigata. - L.P.: Pres.: K. Sakaguchi. - 11) Kyoto Broadc. Co., Nakakyo-ku, Kyoto. - L.P.: Pres.: K. Shin-aishi.
- 12) Sanyo Broadc. Co., Okayama. - L.P.: Pres.: H. Taniguchi.
- 13) Nankai Broadc. Co., Matsuyama. - L.P.: Pres.: Y. Yamanaaka.
- 14) Kyushu Asahi Broadc. Co., Fukuoka. - Pres.: S. Kimura.
- 15) Tokai R. Broadc. Co., Nagoya. - L.P.: Pres.: M. Abo.
- 16) Broadc. System of San In, Yonago. - L.P.: Pres.: O. Oda.
- 17) R. Kochi Broadc. Co., Kochi. - L.P.: Pres.: J. Hara.
- 18) Wakayama Broadc. Corp., Wakayama. - L.P.: Pres.: K. Maeda.
- 19) Hokkaido Broadc. Co., Sapporo, Hokkaido. Te.: 3-8181. - L.P.: Pres.: S. Abe. Dir. Tec.: T. Sugiyama. - D. PRGR.: 20.30-15.00.
- 20) Fukui Broadc. Co., Makinoshima-cho 41, Fukui. - L.P.: Pres.: S. Kato. Dir. Tec.: S. Sugimoto. - V. by QSL-card.
- 21) Yamagata Broadc. Co., Yamagata. - L.P.: Pres.: Y. Hattori.
- 22) Nagasaki Broadc. Co., Ltd., Nagasaki. - L.P.: Pres.: E. Nakabe.
- 23) Miyazaki Broadc. Co., 858 Shimo-Kitakata-machi, Miyazaki.
- 24) Yamaguchi Broadc. Co., Tokuyama. - L.P.: Pres.: J. Notuchi.
- 25) Tokyo Broadc. System. - Fl.: By adv. - ADDR.: Main Office Radio Television: 36 Akasaka, Hitotsubashi, Minatoku, Tokyo. Cable: JOKR, JOKR TELEVISION. Te.: Main Office: 481-8711. R. Studio: 201-0531. - L.P.: Chairman: T. Adachi. Pres.: K. Shikakura. Dir. Gen.: Y. Tanaka. J. Imamichi. Dir. Tec.: K. Endo. Dir. Prgr.: T. Mitsuda (Radio), T. Morimoto (TV). - D. PRGR.: 20.00-16.20. - Folklore Music: W. 09.55; Sun. Mo. 12.55, Thurs. 05.05; Fri. 03.30, 12.10, 13.15; Sun. 09.15, 13.15. - N. 5 min. every h. exc. 01.00, 11.00, 15.00. - Rel.: Sat. 21.25, Sun. 02.30, 21.15, 21.30. - ANN.: "JOKR Koshirawa Tokyo Hosu desu". E.: "JOKR This is TBS". - V. by QSL-card.
- 26) Oita Broadc. Service, 1-491 Takamatsu, Oita. - L.P.: Y. Hoshino.
- 27) Asahi Broadcasting Corporation. - ADDR.: Main Office and R. St.: Kitaku, Osaka. Tokyo Branch Office: New Asahi Shimbun Bldg., Yurakucho, Chiyodaku, Tokyo. Cable: JONRTV. Te.: 23-8001. - L.P.: Chairman, Board of Dir.s: M. Iijima. Pres.: K. Suzuki. Vice-Pres.: T. Hirai. Dir. Sales: T. Tateishi (Man. Dir.). Dir. Prgr.: K. Hara (Man. Dir.). Dir. Gen. Affairs: D. Ato (Man. Dir.). Dir. Tec.: K. Endo. Mgr. Tokyo Branch Office: M. Kobayashi. - D. PRGR.: 20.00-17.00. - N. W.: 20.50, 21.50, 22.50, 00.50, 01.50, 02.50, 03.50, 04.50, 05.50, 06.50, 07.50, 08.50, 09.50, 12.50, 13.50, Sun.: 20.50, 21.50, 22.50, 00.50, 06.50, 09.50, 12.50, 13.50. - ANN.: "ABC Asahi Hosu, JONR". - V. by QSL-card. - PUB.: "Radio and TV Asahi", monthly. "Cooking Textbook", every two weeks.
- 28) R. Aomori Broadc. Co., Aomori. L.P.: Pres.: S. Takeuchi.
- 29) Chubu Nippon Broadc. Co., Shinsakae-machi, Nagoya. Te.: 24-8111. - L.P.: Pres.: K. Sasabe. Dir. Tec.: S. Maeda. - D. PRGR.: 20.30-16.00. - N.: 20.30, 21.00, 22.00, 24.00, 02.00, 03.00, 04.00, 05.00, 08.00, 10.00, 13.00, 15.00. - V. by QSL-card. Prgr. schedule free on request.
- 30) Shizuoka Broadc. System, Shizuoka. - L.P.: Pres.: Y. Komuratani.
- 31) Tohoku Broadc. Co., Sendai. - L.P.: Pres.: K. Sasaki.
- 32) Shikoku Broadc. Co., Tokushima. - L.P.: Pres.: S. Maekawa.
- 33) RKB Mainichi Broadc. Co., Fukuoka. - L.P.: Pres.: M. Yamawaki. Vice Pres.: H. Kaneko. Dir. Tec.: K. Kimoto. Dir. For. Rel.: S. Yamada. - D. PRGR.: 20.45-15.45. - V. by QSL-card. - F.P.L.: JOFR 100 kW, 2 FM st.s. - PUB.: Prgr. schedule free on request.
- 34) Kumamoto Broadc. Co., Kumamoto. - L.P.: Pres.: R. Fukami.
- 35) R. Chugoku Broadc. Co., Mato-Machi, Hiroshima. Te.: (2)2366. - L.P.: Pres.: T. Tsukifuji. Dir. Tec.: H. Tahara. - D. PRGR.: 20.30-15.00. - V. by QSL-card.
- 36) Nippon Cultural Broadc. Inc., Shinjuku, Tokyo. - L.P.: Chairman: K. Shibusawa. Pres.: S. Mizuno. Mgr.: S. Tomoda. Y. Arisaka, K. Kayahara. - D. PRGR.: 20.00-16.55. N. Wrp.: 20.55, 21.50, 22.50, 23.55, 00.55, 01.55, 02.50, 04.55, 05.55, 07.55, 09.50, 15.00. English-Japanese lessons: D. 22.30-24.00. - ANN.: "Bunkahoso JOQR". - V. by QSL-card.
- 37) Mainichi Broadc. System, Inc. (MBS). - Head Office: 53 Funadai-ku-cho, Dojima, Kita-ku, Osaka. Studios: 297 Yamadashima, Senri-cho, Suita-shi, Osaka-fu. Tokyo Office: 11, 1-chome, Yurakucho, Chiyoda-ku, Tokyo. Nagoya Office: 1, 4-chome, Horiuchi-cho, Nakamura-ku, Nagoya. Cable: Mainichi-hoso Osaka. Te.: Head Office: 86-8231. - L.P.: Pres.: S. Takahashi. Man. Dir.: T. Nagamatsu. - D. PRGR.: 20.30-15.00. N.: Every h. on the h. exc. 02.00, 10.00, 11.00, 12.00, 13.00, 14.00. English: Wed. 03.15. - ANN.: "Okiki no hoso wa

Let Us Acquaint You
With Japan Through



THE
NATIONAL ASSOCIATION
OF COMMERCIAL
BROADCASTERS
IN JAPAN

Membership: 54 Broad-
casting Companies (111
radio stations and 67 TV
stations)

8-7 NISHI-GINZA CHUO-KU TOKYO . JAPAN

MBS Mainichi-hos desu". - V. by QSL-card. Prgr. sched. free on request. - F. PL.: 100 kW, 2 FM st.'s, 3 relay st.'s.
38) Nippon Broadc. System, 7-1-chome Yurakucho, Chiyodaku, Tokyo. - L.P.: Chairman: K. Uemura. Pres.: N. Shikanai. Dir. Tec.: S. Nishiyama.
D.PRGR.: 24 h. - N., Wrp.: 00.30, 01.30, 03.30, 05.30, 06.30, 07.30, 09.30, 11.30, 12.30, 13.30, 14.30, 15.30, 17.30, 23.30. - Nat. Music: D. 05.30, 19.00. - ANN.: "JOLF, Nippon Hoso desu" ("This is Nippon Hoso"). - INT.-SIG.: (Time Signal):



V. by QSL-card, R. p. - PUB.: Prgr. schedule free on request.
39) Osaka Broadc. Co., Sankei Bldg. 27 Umeda-cho, Kita-ku, Osaka. Te.: (36)1271. - L.P.: Pres.: T. Maeda. Dir. Tec.: H. Asada. - D. PRGR.: 20.30-17.30. - ANN.: "Radio Osaka, JOUF". - V. by QSL-card or letter. Prgr. sched. free on request. - F.PL.: FM.
40) R. Kanto, 19 Oimatsu-cho, Nishi-ku, Yokohama. - L.P.: Chairman: T. Isono. Vice Pres.: H. Sasaki. Chief, Man. Dir.: R. Hirota. - D.PRGR.: 20.00-16.30. - V. by QSL-card. Prgr. sched. free on request. - F.PL.: FM & TV.
41) Nishi-Nippon Broadc. Co., Ltd., Takamatsu. - L.P.: Pres.: J. Hirai. 42) Nihon Short-Wave Broadc. Co., Ltd., Akasaka. Minato-ku, Tokyo. Te: 481-8151. - L.P.: Pres.: S. Odajima. Mgr.: Z. Takano. Dir. Tec.: S. Ito. DX Time Producer: J. Kato.
D.PRGR.: 20.30-15.45. - N.: 03.30, 08.30, 14.30, 23.30. - Wrp.: 07.20, 14.40, 20.45. - DX-Prgr.: in Japanese: Sun. 09.25-09.40, Dx. no. Shiori: Tues., Fri. 07.15-07.18. - English Lesson: Sun. 00.00-03.00. - ANN.: "Nihon Tampa Hoso desu". - INT.-SIG.: Slow tempo chime with Japanese musical instrument "Koto" at sign on and sign off. - V. by QSL-card. - Time Table of power change for JO2Z/JOZ3: March/April/Sept./Oct.: 50 kW until 10.00; May/August: 50 kW until 11.00; Nov./Feb.: 50 kW until 09.00. - PUB.: Prgr. sched. free on request.

VOICE OF UNITED NATIONS COMMAND (V.U.N.C.)
Fl.: by state (United Nations Command, Korea).
ADDR.: U.S. Army Broadcast and Visual Activity, Pacific, APO 331, San Francisco, Cal., USA.
L.P.: Chief Radio Division: E. Masters.
FOREIGN SERVICE in Cantonese, Mandarin, Korean:
VUNC Korean Network (Seoul): 08.00-02.30.
760 kc/s 395.0 m 5 kW 1270 kc/s 236.0 m 50 kW
1220 - 246.0 - 5 - 2405 - 124.7 - 0.3 -
3985 - 75.28 - 0.3 -
Korean: 10.00-14.00, 20.30-00.30 - Mandarin: 16.00-19.00 - Cantonese: 19.00-19.30 - Music: 08.00-11.00, 14.00-16.00, 00.30-02.30.
KBS Network II: 10.00-11.30 (Korean only).
Seoul 970 kc/s 309.0 m 100 kW: 10.00-11.30
Seoul 6035 - 49.71 - 10 - 10.00-11.30
ANN.: E.: "Voice of the U.N. Command". - V. by QSL-card. F.PL.: New s.w. st.'s (two of 20 kW) approx. March 1962.

FAR EAST NETWORK (AFRTS)

The network serves the members of the United States Forces serving in the Far East. - ADDR.: Headquarters, Far East Network, APO 67, San Francisco.

Authority: The stations of the FEN in Japan broadcast by authority of the Commander, U.S. Forces, Japan, in cooperation with the Japanese Radio Regulatory Board. St.'s are linked by land line, and operate 24 h. daily.

MEDIUM WAVES: FEN

Name	kc/s	kW	Name	kc/s	kW
Tokyo	810	10	Chitose	1570	0.25
IwoJima	1500	0.1	Sasebo	1570	0.25
Itazuke	1550	2.5	Misawa	1580	0.25

SHORT WAVES: Relay Tokyo for Korea/Okinawa/Taiwan/Iwo Jima:

3800 kc/s	78.95 m	0.1 kW	$\left\{ \begin{array}{l} 1) \text{ Nominally } 08.30-22.00 \text{ } 10 \text{ kW,} \\ 2) \text{ } 22.00-08.30 \text{ } 1 \text{ kW,} \\ 3) \text{ Nominally } 22.00-08.30 \text{ } 1 \text{ kW,} \\ 4) \text{ } 08.30-22.00 \text{ } 10 \text{ kW.} \end{array} \right.$
*6155	- 48.74	- 10 - 1)	
11750	- 25.53	- 10 -	
*15260	- 19.63	- 10 - 2)	

* Power and direction vary to meet point to point commitments.
N.: Every h. on the h. - ANN.: Local st. identification is "Serving American Forces Overseas. This is the Far East Network... Far East Network, Tokyo (Nagoya, Itazuke, etc.)". In the s. w tr.'s are the frequencies mentioned. - V. by QSL-card.

★ JORDAN ★

L.T.: GMT+2 h. Pr.L.: Arabic, English. - Po.: 1.607.000. - Rcvrs.: 190.000. - E.C.: 220 V., A.C., 50 c/s.

THE BROADCASTING SERVICE OF THE HASHEMITE KINGDOM OF JORDAN (Go.)

ADDR.: P. O. Box 909, Amman. Cable: Broadcasting. Te.: 23101. L.P.: Dir. Gen.: H. E. Salah Abu Zeid. Asst. Dir. Gen.: Eng. A. Bayat. Asst. Dir. Gen. N. & Politics: A. Abu Alsha'ar. Asst. Dir. Gen. Prgr.: S. Aweidah. Asst. Dir. Gen. Adm.: Gh. Sunna. STATIONS: 677 kc/s: Jerusalem. Others: Amman.

800 kc/s	375.0 m	100 kW	9740 kc/s	30.80 m	100 kW
677 -	443.0 -	20 -	11810 -	25.40 -	7.5 kW
6020 -	49.83 -	7.5 -	11970 -	25.06 -	100 -
7155 -	41.92 -	100 -	15170 -	19.78 -	100 -
9530 -	31.48 -	100 -	15345 -	19.55 -	100 -
9560 -	31.38 -	100 -			

HOME SERVICE

Amman: Arabic 03.30-06.00 on 800/7155/11810 kc/s, 06.15-08.05 and 11.00-13.05 on 800/9530/11810 kc/s, 14.00-22.00 on 800/7155/11810 kc/s; N.: 05.00, 08.00, 12.00, 13.00, 16.00, 19.00, 21.00, 22.00. - Jerusalem: English: 11.00-12.00, 15.00-17.00; N.: 11.30, 16.00. - Arabic 12.00-15.00.

FOREIGN SERVICE

SOUTH AMERICAN SERVICE: 23.00-01.00 on 15170 or 15345 kc/s in Arabic, Spanish. N.: 00.30. - NORTH AMERICAN SERVICE: 01.15-03.15 on 9530, 9560 or 9740 kc/s in Arabic, English. N.: 02.30. - ANN.: Arabic: "Huna Amman Ithaatul Mamlaketi Al Urdoniet Al Hashemieh". English: "This is Amman the Broadcasting Service of the Hashemite Kingdom of Jordan".
INT.-SIG.:



V. by QSL-card and letter. - PUB.: Prgr. schedule free on request.

KOREA (Peoples Democratic Republic)

L.T.: GMT+9 h. - Pr.L.: Korean. - Po.: 15,000 - Rcvrs.: 600,000
- E.C.: 100/200 V., A.C., 50 c/s.

ADDR.: Korean Central Broadcasting Committee, Pyongyang.

L.P.: Dir. Internat. Affairs: J. K. Yung.

STATIONS: Medium Waves:

785 kc/s	382 m	1045 kc/s	286 m
820 -	365 -	1080 -	278 -

Short Waves:

2850 kc/s 105.3 m - 6195 kc/s 48.43 m - 6250 kc/s 48.00 m
HOME SERVICE in Korean: 1st Prgr.: 19.50-17.00 on 785/2850/6195 kc/s. 2nd Prgr.: 19.50-17.00 on 820/1080/6250 kc/s.

FOREIGN SERVICE on 820/1045/1080/6250 kc/s: Chinese: 08.00-08.30. English: 00.30-01.00, 12.30-13.00. Japanese: 00.00-00.30, 13.00-13.30. - Korean (for Koreans in Japan): 22.30-23.00, 10.30-11.00 (on 785/2850/6195 kc/s).

ANN.: English: "This is the Korean Central Broadcasting Station, Pyongyang". - V. by letter.

INT.-SIG.:



VERIFICATION BY Q.S.L. CARD

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ASAHI BROADCASTING

Listen To ABC

Leadership Station in Japan

ASAHI BROADCASTING CORP.
HEAD OFFICE: NAKANOSHIMA, KITAKU, OSAKA
BRANCH OFFICE: YURAKUCHO, CHIYODAKU, TOKYO

JONR-1010KC-20KW JONR-TV-CHANNEL 6-10KW

Korea - Kuwait

★ KOREA (Republic of) ★

L.T.: GMT+9 h. - Pr.L.: Korean. - Po.: 22.303.000. - Rvrs.: 830.000. - E.C.: 110/220 V., A.C., 60 c/s.

THE KOREAN BROADCASTING SYSTEM (Go.)

ADDR.: Bureau of Radio Management, Ministry of Public Information, Republic of Korea, Seoul. - L.P.: Minister: J. K. Oh. Vice-Minister: W. U. Lee. Bureau Dir.: J. Y. Kim. Chief Engineer: I. K. Lee. Management Sec. Chief: J. Y. Kim. Facility Sec. Chief: K. S. Han. Home Sec. Station Dir. (HLKA): K. K. Yun. Overseas Sec. Station Dir. (HLCA): K. H. Hwang.

STATIONS:

Call	kc/s	m	kW	Call	kc/s	m	kW
HLK50	2510	119.50	10	HLK5	9640	31.12	50
HLK51	3910	76.73	4	HLK6	11925	25.17	50
HLK22	5975	50.21	10	HLK55	11950	25.10	50
HLK52	6035	49.71	10	HLK41	15125	19.83	50
HLK30	7190	41.72	10	HLK46	17815	16.84	50

Medium Waves. °) Short Wave.

Name	Call	kc/s	kW	Name	Call	kc/s	kW
Junjoo	HLKF	570	10	Pusan	HLKB	890	50
Kangneung	HLKR	600	10	Chongjoo	HLKQ	920	1
Mokpo	HLKN	650	1	Seoul	HLCA	970	100
Masan	HLKD	650	1	Sokcho	HLCS	1000	1
Seoul	HLSA	660	10	Namwon	HLKL	1030	1
Kwangjoo	HLKH	680	10	Sokwipo	HLCG	1030	1
Seoul	HLKA	710	100	Hwachon	HLCF	1320	1
Taegoo	HLKG	740	10	Yeosoo	HLCY	1340	0.25
Jeju	HLKS	800	1	Choonch.	HLKM	1360	1
Taejun	HLKI	880	10	Pohang	HLCP	1420	0.25

FM Prgr. Link: Seoul, Suwon, Taejun, Taegoo, Pusan, Masan, Iri, Kwangjoo: 44.1-49.9 mc/s, 60-250 W.

HOME SERVICE:

1st Prgr. (Korean): 20.00-16.30. - 2nd Prgr. (Korean): 20.00-16.30.

FOREIGN SERVICE:

I=No. America; II=to Hawaii; III=General Overseas Service; IV=to Japan; V=to Europe; VI=to Far East; E=English; F=French; K=Korean; J=Japanese; C=Chinese; D=Nov./March; M=March/May and Sept./Nov.; S=May/Sept.

Times	D	kc/s	M	S	Area	L.
02.00-03.00	9640	9640	9640	9640	IV	J
03.30-06.00	9640/11925	11925/15125	15125/17815	15125/17815	I	E
06.00-06.30	9640/11925	11925/15125	15125/17815	15125/17815	I	K
07.30-08.00	11925	15125	17815	17815	II	E
08.00-08.30	11925	15125	17815	17815	II	K
09.00-09.30	970/6035	970/6035	970/6035	970/6035	VI	R
09.30-10.30	9640	9640	9640	9640	IV	J
09.30-10.00	970/6035	970/6035	970/6035	970/6035	VI	C
10.00-11.00	9640	9640	9640	9640	III	E
12.00-13.00	970/6035	970/6035	970/6035	970/6035	IV	J
13.00-16.45	970/6035	970/6035	970/6035	970/6035	IV	K
14.30-15.00	9640	11925	11925	11925	I	E
16.00-16.30	9640	11925	11925	11925	II	E
16.45-17.30	970/6035	970/6035	970/6035	970/6035	VI	C
19.30-23.30	970/6035	970/6035	970/6035	970/6035	VI	K
22.00-22.30	9640	11950	11950	11950	V	E
22.30-23.00	9640	11950	11950	11950	V	F

ANN.: Home Sec.: Every 30 min. Korean: "Seoul Chungang Bangsonguk Imnida HLKA" (Seoul Key Station HLKA). After each Short Prgr.: KBS (Kei bi es). - Foreign Sec.: E.: "This is the Voice of Free Korea, Korean Broadcasting System".

INT.-SIG.: Foreign Sec.: Korean folk music.



V. by QSL-card. - F.P.L.: 500 kW m.w. st. - PUB.: Prgr. schedule free upon request. Radio and TV (monthly) Broadcasting (weekly).

AMERICAN FORCES KOREA NETWORK

ADDR.: Headquarters United States Element, American Forces Korea Network, APO 301, San Francisco, Calif., USA.

L.P.: R. Netw. Prgr. Dir.: J. H. Mayall.

STATIONS: 24 h.

	kc/s	kW		kc/s	kW
Seoul ¹⁾	560	5	Pusan ⁵⁾	1250	1
Tongduchon ²⁾	900	1	Taegu ⁶⁾	1360	1
Osan ³⁾	970	1	Uncheon-ni ⁷⁾	1400	1
Munsan-ni ⁴⁾	1200	1	Kunsan ⁸⁾	1440	0.25

¹⁾ "Vagabond". ²⁾ "Bayonet". ³⁾ "Comet". ⁴⁾ "Cavalier". ⁵⁾ "Home-stead". ⁶⁾ "Kilroy". ⁷⁾ "Gypsy". ⁸⁾ "Mercury".

N.: Every h. on the half-hour.

ANN.: (System cue): "This is the American Forces Korea Network". Local st. identification: "This is radio "Vagabond" in Seoul"...etc. V. by letter. Rp.

RADIO STATION HLKX (Religious, Educational)

Operated by the Evangelical Alliance Mission, 2845 W. McLean Av., Chicago. - FI.: By contributions and free-will offerings. -

ADDR.: Box 16, Inchon. Cable: Team Seoul. - L.P.: Dir.: T. Watson jr. Deputy Dir.: R. Pence. Dir. Tec.: Wm. S. Winchell. Dir. Prgr.: C. Hovland.

HOME SERVICE: 1060 kc/s 285 m 20 kW: 20.00-23.30, 05.00-17.00 (Sat./Sun. 19.45).

Chinese: 20.00-22.00, 13.00-15.00. - English: 05.00-09.00 (Sat. also 17.00-19.45). - Korean: 22.00-23.30, 09.00-11.00 (Sun. also 17.00-19.45). - Russian: 11.00-13.00, 15.00-17.00. -

ANN.: "TEAM Radio HLKX, Inchon, Korea". - V. by QSL-card. - PUB.: Prgr. schedule free on request. HLKX-Echoes. - F.P.L.: Power 50 kW.

CHRISTIAN BROADCASTING SYSTEM (Non-Comm., Independent).

- FI.: Almost entirely by donations from rel. groups and interested individuals. - ADDR.: 91 Chongno 2 Ka, Seoul. Te.: 3-2761. - L.P.: Dir.: E. O. De Camp. Mgr.: C. Bok Kim. Dir. Tec.: Y. H. Park.

HOME SEC. in Korean, English:

HLCP²⁾ 640 kc/s 468 m 1 kW HLKP³⁾ 1000 kc/s 300 m 0.25 kW HLKY⁴⁾ 840 - 357 - 10 - HLCL⁵⁾ 1000 - 300 - 0.25 - HLKT⁶⁾ 1000 - 300 - 0.25 -

¹⁾ Seoul. ²⁾ Taegu. ³⁾ Pusan. ⁴⁾ Kwangju. ⁵⁾ Iri.

Korean: W.: 21.30-24.00, 03.20-05.30, 09.00-15.00. Sun.: 21.30-23.30, 05.30-15.30. - N., Wrp.: 21.30, 22.30, 23.30, 03.20, 04.20, 05.20, 09.20, 10.20, 11.20, 12.20, 14.30. - Folklore Music: Thurs.: 13.45-14.00. - L.L.: D. 21.45-22.00 (English), W. 14.15-14.30 (Mo., Wed., Fri.: German; Tues., Thurs., Sat.: French). - English: Sun.: 23.30-02.30, 13.00-13.30 (rel. prgr.s). - F.P.L.: Further reg. st.s in Taejon, Mokpo, Andong.

RADIO STATION HLKU (Comm.)

ADDR.: No. 3, 3-Ka, Choong-Ang Dong, Pusan.

L.P.: Dir.: S. Soo Ang. Mgrs.: J. Whan Kim, K. Ok Chung. Dir. Prgr.: S. Yoi Lee. Dir. Tec.: I. Gyu Pak.

HOME SERVICE in Korean: 1035 kc/s 290 m 1 kW: W.: 21.30-01.30, 04.00-06.00, 09.00-14.30. Sun.: 21.30-06.00, 09.00-14.30. - N.: 22.25, 04.25, 10.25, 11.20, 13.20.

★ KUWAIT ★

L.T.: GMT+3 h. - Pr.L.: Arabic. - Po.: 321.000. - Rvrs.: 100.000. - E.C.: 220/240 V., A.C., 50 c/s.

KUWAIT BROADCASTING & TELEVISION SERVICE (Go.)

ADDR.: P. O. Box 397, Kuwait. Cable: Kuwait Broadcasting, Te.: 5011. - L.P.: Consultant: M. T. Ghossain. Dep. Dir. Gen.: M. Abu-Gharbieh. Editor: M. Al-Hut.

HOME SERVICE in Arabic: 02.30-07.00, 09.00-21.15.

1130 kc/s	265.0 m	10/100 kW	11940 kc/s	25.12 m	10/50 kW
1345	223.2	10/100	15150	19.80	10/50
4967	60.25	10/50	17750	16.90	10/50
6055	49.55	10/50	21525	13.94	10/50
9520	31.51	10/50			

N.: 03.00, 04.00, 05.00, 10.00, 16.00, 19.00, 21.00.

ANN.: "Huna Dar Al-Iza'a Al-Kuwaitieh". - INT.-SIG.:



V. by special card. - F.P.L.: One 100 kW m.w.-tr., one 50 kW sw.-tr.

★ LAOS ★

L.T.: GMT + 7 h. - Pr.L.: Laotian, French. - Po.: 3,000,000. - Rcvrs.: 15,000. - E.C.: 115 V., A.C. 50 c/s.

RADIODIFFUSION NATIONALE LAO (Go.)

ADDR.: Radiodiffusion Nationale Lao, Vientiane. Cable: Radio Lao. Te.: 76. - L.P.: Dir. Gen.: T. Bounthamaly. Dir. Tec.: Viengsavanh. Dir. Adm.: B. Hansacda.

HOME SERVICE: 23.30-01.00, 05.00-06.30, 11.00-13.45.

1340 kc/s 223.8 m 5 kW 7145 kc/s 41.99 m 1 kW

6130 - 48.94 - 1 - 6150 - 48.78 - 10 -

N.: Laotian: 00.00, 00.45 (dictation), 05.15, 12.00 - French: 05.40, 12.30 - English: 13.00 - Vietnamese: 13.15 - Chinese: 13.30 - Mèo (local dialect for No. Laos): 00.30

ANN. F.: "Ici Vientiane, Radiodiffusion Nationale Lao". - INT.-SIG. Music on Khene, instrument of Bamboo. - V. by QSL-card.

★ LEBANON ★

L.T.: GMT + 2 h. - Pr.L.: Arabic, French, English. Po.: 1,600,000. Rcvrs.: 85,000 - E.C.: 110/190, 220/380 V., A.C., 50 c/s.

LEBANESE BROADCASTING STATION (Go.)

ADDR.: Radio Liban, Ministère de l'Orientation de l'Information et du Tourisme, Beyrouth. Cable: Radioliban. Te.: 244.756. L.P.: Dir. Gen.: Boutros Dib. Dir. of Broadc.: Hassan El Hassan. Dir. Tec.: J. Rouhayem.

HOME SERVICE:

836 kc/s 359 m 4 kW - 989 kc/s 303.3 m 10 kW - 8036 kc/s 37.34 m 2 kW. - Arabic on 989/8036 kc/s: 04.30-07.00, 09.30-13.25, 14.00-22.00. N.: 05.00, 06.00, 11.00, 12.30, 15.00, 18.00, 20.15, 21.50. French (on 836 kc/s): D. 05.30-07.00, 11.30-12.30, 19.00-20.15. English (on 836 kc/s): D. 15.00-16.00.

ANN.: Arabic: "Houna Beyrouth, Dar al'Iza'a al Loubaniat". F.: "Ici Beyrouth, Station de Radiodiffusion Libanese." E.: "This is the English programme of the Lebanese Broadcasting Station in Bryrut". - INT.-SIG.:



F.P.L.: A m.w. & s.w. st. 100 kW at the end of 1961. - PUB.: Prgr. schedule in Arabic free on request.

★ MACAU (Portuguese China) ★

L.T.: GMT + 8 h. - Pr.L.: Portuguese, Chinese, English. - Po.: 180,000. - Rcvrs.: 10,000. - E.C.: 110 V., A.C., 50 c/s.

EMISSION VILA VERDE (Priv.-Comm.)

FL: By adv. - AD.: Only on CR9XM spots or 15-30 min. prgrs. ADDR.: Radio Vila Verde, Macau. Cable: Vila. Te.: 3355. L.P.: Dir.: P. J. Lobo. Mgr.: P. H. Lobo. Dir. Tec.: J. J. Alvares.

HOME SERVICE: R. Vila Verde.

CR9XL 1003 kc/s 298 m 1 kW: 12.00-16.00: Portuguese.

CR9XM 1200 - 250 - 3 - : 23.00-16.00: Chinese, N.: 12.15.

Wrp.: Portuguese: 05.30, 11.30, 14.30. Chinese: 03.30, 07.30, 10.30.

ANN.: P.: "Aquí Emissora Vila Verde Macau, estação CR9XL". - V. by letter or QSL-card.

★ MALAYA (Federation) ★

L.T.: GMT + 7½ h. - Pr.L.: Malay, English, Chinese, Tamil. - Po.: 7,000,000. - Rcvrs.: 250,000. - E.C.: 230-400 V., A.C., 50 c/s.

RADIO MALAYA (Go.)

FL: by state: A. comm. service is expected to be inaugurated on Jan. 1st 1962

ADDR.: Dept. of Broadcasting, 5th Floor, Federal House, Kuala Lumpur. Cable: Broadcasts. Te.: 82241.

L.P.: Dir.: D. Ramli. Dep. Dir.: M. Za'aba. Chief Eng.: K. Singh. Publicity Officer: Miss Lily Goh.

STATIONS: Medium Waves:

kc/s kW Netw.			kc/s kW Netw.		
Kuala Lumpur	590 10	Green	Ipoh	910 2	Purple
Penang	660 10	Red	K. Trengganu	960 0.3	Red
Ipoh	740 2	Orange	Malacca	1010 10	Purple
Penang	820 10	Blue	Penang	1040 10	Green
Kota Bharu	840 0.3	Red	Kuala Lumpur	1070 10	Red
Kuantan	860 0.3	Red	Malacca	1280 10	Orange
Kuala Lumpur	880 10	Blue			
Short Waves:					
** Kuala Lumpur (Kajang).			** Penang.		
kc/s	m	kW Network	kc/s	m	kW Network
6025*	49.79	5 Red	7200**	41.67	10 Blue
6135*	48.90	7.5 Red/Green	7280**	41.21	10 Green

HOME SCE. in Malay, English, Chinese, Tamil: 22.30-15.30.

6025 kc/s (Malay Service): Sun.: 22.30-01.30, 03.30-15.30; Mo./Wed.: 22.30-03.00, 03.30-06.30, 07.30-15.30; Tues./Thurs.: 22.30-01.30, 02.30-06.30, 08.30-15.30; Fri.: 22.30-15.30; Sat.: 22.30-01.30, 04.00-15.30. - N.: 05.30, 06.00 (Fri. only), 09.30, 12.30, 14.30.

6135 kc/s (Malay/Indian Service): Sun.: 22.30-15.30; Mo./Wed.: 22.30-03.00, 03.30-15.30; Tues./Thurs.: 22.30-01.30, 02.30-07.30, 08.30-15.30; Fri./Sat.: 22.30-01.30, 03.00 (Sat. 04.00)-15.30. - N. in Malay: 05.30, 09.30, 12.30, 14.30. - N. in Tamil: 06.00, 11.30.

7200 kc/s (English Service): Sun.: 22.30-15.30; Mo./Thurs.: 22.30-02.40 (Tues. 02.15), 05.45-06.30, 08.40-15.30; Fri.: 22.30-01.30, 05.45-06.30, 09.30-15.30; Sat.: 22.30-01.30, 05.45-15.30. - N.: 06.00, 11.30, 14.00.

7280 kc/s (Chinese Service): Sun.: 22.30-15.30; Mo./Wed.: 22.30-02.45, 04.30-05.45, 06.30-07.20, 09.30-15.30; Tues.: 22.30-01.30, 04.30-05.45, 09.30-15.30; Thurs.: 22.30-01.30, 04.30-05.45, 06.30-07.20, 09.30-15.30; Fri.: 22.30-02.45, 04.30-06.00, 09.30-15.30; Sat.: 22.30-01.30, 04.30-15.30. - N.: 05.20, 05.35, 10.00, 12.01, 12.30, 13.30, 14.30, 15.27.

All sw.-tr.'s of R. Malaya relay to the Early Morning Service from Kuala Lumpur d. at 22.30-01.30. This prgr. includes N. in English at 00.10, 01.00, N. in Malay: 22.31, 23.30, 00.30, 01.27.

ANN.: E.: "This is R. Malaya". - INT.-SIG.:



V. by letter. - PUB.: Prgr.schedule free on request. - F.P.L.: The Penang and Malacca st.'s will shortly become Regional Centres (Northern and Southern) in view of the increased range of the tr.'s stationed at these centres. Consideration has been given to the inauguration of an external service to neighbouring countries in S. E. Asia 1963. Commercial Service 1962.

REDIFFUSION (MALAYA) LTD. A subsidiary of Rediffusion Ltd. London (Comm.). - FL: By subscription charges and adv. - L.P.: Man. Dir.: G. H. Oldridge. - Kuala Lumpur: P.O. Box 570, 17 Pahang Rd. Cable: Rediffuse. Te.: 81941. St. Mgr.: J. Snowden. - Two simultaneous wired broadcast networks. Originating own prgrs. and rel. "Radio Malaya", B.B.C., etc. D. 22.30-16.30. - Penang: P.O. Box 559, Rediffusion Hse., Khaw Sim Bee Rd. Cable: Rediffuse. Te.: 61761. St. Mgr.: L. H. Adams. - Two simultaneous broadcast networks. Originating own prgrs. and rel. "Radio Malaya", B.B.C., etc. D. 22.30-15.30.

★ MONGOLIA (Peoples Rep.) ★

L.T.: GMT + 8 h. - Pr.L.: Mongolian. - Po.: 1,000,000. - Rcvrs.: 25,000. - E.C.: 220 V., A.C., 50 c/s.

ULAN BATOR RADIO (Go.)

FL: By Go., limited adv. allowed. - ADDR.: Radio Ulan Bator, Ulan Bator, The Mongolian People's Republic. Cable: Mongolian Radio. - L.P.: Dir. Gen.: Zh. Zundui. Dep. Dir.: P. Sodnomdarja.

STATIONS:

227 kc/s 1322 m 150 kW - 5960 kc/s 50.34 m 50 kW
5067 - 59.21 - 25 - 6383 - 47.00 - 25 -
5232 - 57.33 - 25 - 10910 - 27.49 - 25 -

HOME SERVICE in Mongolian:

1st Prgr.: 22.55-02.00 on 227 kc/s, 02.00-11.00 on 227/5960/10910

kc/s, 11.00-15.05 on 5067/5940 kc/s.

2nd Prgr.: 09.00-14.05 on 5232/6383 kc/s.

Relay Radio Moscow: 09.30-10.00, 13.15-14.00.

FOREIGN SERVICE:

Russian: Mo.-Fri. 06.00 (1st Prgr.), 11.40 (2nd Prgr.). - Chinese: Tues. 11.20, Thurs. 10.40 (1st Prgr.), Thurs. 13.20 (2nd Prgr.).

- Kazakh: Tues. 12.15, Thurs. 06.20, Sat. 10.35 (1st Prgr.).

ANN.: "Ankhararai Ulanbatras jarsj baina" (Attention. This is Ulan-Bator Calling). - INT.-SIG.:



V. by letter.

★ NEPAL ★

L.T.: GMT + 5½ h. - Pr.L.: Nepali, Newari, Hindi, English. - Po.: 8,790,000. - Rcvrs.: 15,000. - E.C.: 120/220 & 380/440 V., A.C., 60 c/s.

RADIO NEPAL (Go.)

ADDR.: Kathmandu (Via India).

HOME SERVICE: 03.20-04.50, 07.50-09.20, 11.30-14.10.

1500 kc/s 200 m 20 kW - 6004 kc/s 49.96 m 5 kW.

ANN.: Nepali: "Yo Radio Nepal Ho". - V. by letter. R.p. - F.P.L.:

External Sce. from a 10 kW s.w.-tr. to India, Pakistan, Tibet.

★ **PAKISTAN** ★

L.T.: We, Pakistan: GMT+5 h. Ea. Pakistan: GMT+6 h. - Pr.L.: Urdu, Bengali. - Po.: 83.603.000. - Rvrs.: 250.000. - E.C.: 220 V., A.C., 50 c/s.

RADIO PAKISTAN (Go.)

ADDR.: 71, Garden Road, Karachi 3. Cable: Pakbroadcast. Te.: 70340. L.P.: Dir. Gen.: R. Ahmed. Dep. Dir. Gen.: A. Nasri, S. A. Hafeez. Chief Eng.: B. Ahmed. Dep. Chief Eng.: S. A. Aziz. Dir. of Liaison: S. A. Gilani. Adm. Officer: K. A. Mukhtar.

Executive Units: Dir.: N. S. I. Haq. Dir. External Sce.'s: H. Nasim. Reg. Dir. Karachi: M. Iqbal. Reg. Dir. Lahore: A. B. Ahmed. Reg. Dir. Rawalpindi: A. F. Kalimullah. Reg. Dir. Peshawar: Q. A. Saeed. Reg. Dir. Hyderabad: S. Haider. Reg. Dir. Dacca: S. H. Chowdhury. Reg. Dir. Quetta: K. G. Ali. Dir. Monitoring: M. M. Sayeed. Resd. Eng. H. P. T.: S. Shah. Maintenance Eng.: S. Hasan. Installation Eng.: M. G. Baig. Research Eng.: Irfanullah. Editor, Radio Pub.: G. Abbas. Dir. Staff Training: Z. Hussain.

STATIONS:

Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Peshawar I	790	379.7	10	Rawalpindi I	1150	260.0	10
Karachi I	830	361.4	10	Dacca I	1170	256.4	5
Chittagong	870	344.8	1	Rajshahi	1340	223.9	1
Hyderabad	1010	297	10	Quetta	1450	206.9	1
Lahore I	1090	275.2	5				

Short Waves: Karachi II/III=50 kW; Karachi IV/V=10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2420	124.00	7200	41.67	9750	30.77	15270	19.65
3395	88.37	7225	41.52	9755	30.76	15275	19.64
3915	76.63	7263	41.30	11650	25.75	15335	19.56
3945	76.05	7270	41.26	11672	25.71	15255	19.67
3955	75.85	7280	41.21	11726	25.58	15360	19.53
4807	62.41	7290	41.15	11740	25.55	17710	16.94
4895	61.29	7295	41.12	11770	25.49	17715	16.93
4910	61.10	9484	31.63	11795	25.43	17745	16.91
4935	60.79	9545	31.43	11800	25.42	17750	16.90
5980	50.17	9560	31.38	11810	25.40	17755	16.90
5990	50.08	9595	31.27	11840	25.34	17760	16.89
6035	49.71	9614	31.20	11845	25.33	17770	16.88
6070	49.42	9630	31.15	11885	25.24	17835	16.82
6075	49.38	9640	31.12	11910	25.19	21570	13.91
6235	48.12	9645	31.10	11920	25.17	21580	13.90
7010	42.80	9695	30.94	15145	19.81	21590	13.90
7096	42.27	9705	30.91	15155	19.80	21630	13.87
7150	41.96	9737	30.81	15192	19.75	21690	13.83
7160	41.90	9740	30.80	15205	19.73		

Dacca: II 7.5 kW, Dacca: III 10 kW

2350	127.66	6075	49.38	9605	31.23	15285	19.63
3325	90.23	6090	49.26	9614	31.20	15335	19.56
3950	75.95	6112	49.08	9615	31.20	15550	19.29
3955	75.86	6120	49.02	9645	31.10	17640	17.00
3965	75.66	7140	42.01	11725	25.59	17720	16.93
4790	62.62	7150	41.96	11730	25.58	17730	16.92
4807	62.41	7225	41.52	11890	25.23	17835	16.82
5035	59.58	7263	41.30	15160	19.79	17890	16.77
5970	50.25	7278	41.22	15265	19.66	21465	13.98
5980	50.17	7284	41.19	15270	19.65	21685	13.83

Lahore: II 1 kW

2400	125.00	4807	62.41	6138	48.88	9645	31.10
3335	89.96	6025	49.80	7225	41.52	11800	25.42
3915	76.63	6030	49.75	7270	41.26	11840	25.34
4785	62.70	6075	49.38	7284	41.19		

Rawalpindi II: 10 kW

3259	92.53	4895	61.28	2320	129.31	3965	75.67
7110	42.19	9730	30.83	7130	42.07	9600	31.25

All frequencies are subject to seasonal changes.

MEDIUM WAVE PROGRAMMES

Karachi (Urdu, English, Bengali, Kashmiri, Pushto)

01.30-03.30, 06.30-09.00 (Sun. 01.30-09.00), 11.30 (Fri., Sat, Sun.. 12.00-17.30.

Lahore: 01.30-03.00 (Mo., Thurs. 03.30, Sun. 05.00), 06.30-08.30, 12.00-17.30.

Peshawar: 01.30-03.30 (Sun. 04.00), 07.00-08.30 (Sun., Fri. 06.30-08.30), 12.00-17.30.

Rawalpindi: 01.30-03.00 (Sun. 05.00), 07.00-08.30, 11.00-17.00.

Hyderabad: 01.30-03.00 (Sun. 05.00), 07.00-08.30, 12.00-17.00.

Quetta: 12.00 (Sat., Sun. 11.30)-17.00.

Dacca: 02.00-04.00 (Sun. 04.30), 07.00-08.30, 12.00-17.30.

Abbreviations: K=Karachi, L=Lahore, P=Peshawar, R=Rawalpindi, D=Dacca, H=Hyderabad, Q=Quetta.

Nat. music: is broadcast daily from each st. of R. Pakistan on the chunks other than those reserved for fixed point items, spoken word items and news.

NEWS: National

English: 02.00-02.15 K, L, P, R, H, D. 06.30-06.40 K*, D. 08.00-08.10 K, L, P, R, H, D. 12.00-12.10 K, L, R, D. 14.45-15.00 K, L, P, R, H, D, Q. - Local: 13.20-13.25 K, L, R, D. 12.35-12.40 P, Urdu: National: 02.15-02.30 K, L, P, R, H, D. 08.10-08.20 K, L, P, R, H, D. 12.10-12.20 K, L, P, R, H, Q. - 15.00-15.15 K, L, P, R, H, D, Q. - Local: 13.15-13.20 K, L, D. 12.20-12.25 L, R. 12.30-12.35 P, 12.35-12.40 Q. 13.55-14.00 D.

Bengali: National: 01.45-02.00 K, D. 06.40-06.50 K*, D. 13.45-14.00 K, D. - Local: 13.50-13.55 D.

Pushto: National: 02.50-03.00 K**, P. 07.50-08.00 K**, P. 12.20-12.30 K**, P. - Local: 13.45-13.55 P.

Sindhi: National: 12.20-12.30 H. -

Baluchi: National: 13.20-13.30 K, Local: 13.30-13.35 Q.

Kashmiri: National: 12.35-12.45 K.

*) for Ea. Pakist. **) for We. Pakistan.

SHORT WAVE PROGRAMMES

Karachi to W. Pakistan: 01.45-03.30 on 4930/6070 kc/s, 06.30-08.30 on 9645/11910 kc/s, 12.00-12.30 on 7295/9645 kc/s, 12.35-13.20 on 7010/9750 kc/s, 13.20-13.30 on 7295/9645 kc/s, 14.15-15.15 on 6235/7275 kc/s.

01.45-02.00 N. in Bengali	12.00-12.10 N. in English
02.00-02.30 Rel. prgr.	12.10-12.20 N. in Urdu
02.30-02.45 N. in English	12.20-12.30 N. in Pushto
02.45-03.00 N. in Urdu	12.35-12.45 N. in Kashmiri
03.00-03.10 N. in Pushto	12.45-13.20 Kashmiri prgr.
03.10-03.30 Karachi prgr.	13.20-13.30 N. in Baluchi
06.30-07.00 Karachi prgr.	14.15-14.45 Nat. Hook-up & Karachi prgr.
07.00-08.00 Comm. Sce.	
08.00-08.10 N. in English	14.45-15.00 N. in English
08.10-08.20 N. in Urdu	15.00-15.15 N. in Urdu
08.20-08.30 N. in Pushto	

Karachi to Ea. Pakistan: 01.45-03.00 on 9645/11885 kc/s, 06.30-08.20, 12.00-12.20 on 17750/21590 kc/s, 14.00-15.15 on 11672/15192 kc/s.

01.45-02.00 N. in Bengali	08.10-08.20 N. in Urdu
02.00-02.30 Rel. prgr.	12.00-12.10 N. in English
02.30-02.45 N. in English	12.10-12.20 N. in Urdu
02.45-03.00 N. in Urdu	14.00-14.15 N. in Bengali
06.30-06.40 N. in English	14.15-14.45 Nat. Hook-up & Karachi prgr.
06.40-06.50 N. in Bengali	
07.00-08.00 Comm. Sce.	14.45-15.00 N. in English
08.00-08.10 N. in English	15.00-15.15 N. in Urdu

Zonal Services:

Lahore	kc/s	Dacca II	kc/s	Dacca III	kc/s
02.00-03.30	4807	01.00-03.00	5980	to We. Pakistan	
06.30-08.30	7225	06.00-07.30	9615	01.00-03.00	11730
11.30-13.45	7225	11.00-13.30	7140	06.00-07.30	21685
14.00-17.00	4807	13.15-16.30	6075	11.00-13.30	17640
Rawalpindi: kc/s				13.15-16.30	15550
02.00-03.30	4895				kc/s
Peshawar: kc/s					kc/s
02.30-03.30	3965	07.00-08.30	7110	10.45-11.45	7110
13.45-17.00	3965		7130	11.30-13.30	7130

ANN.: "This is Radio Pakistan, Karachi, Lahore" etc.

EXTERNAL SERVICES

Time	Service	kc/s	Languages
00.30-01.15	So. Ea. As.	7290/9645	Urdu/English
03.45-04.45	So. Ea. Af.	11885/17745	Urdu/Gujrati
08.30-09.15	Indonesia	11885/17750	English
09.30-09.45	Gen. Overseas Sce.*	17750/21590	English
09.45-10.30	Burmese	17750/21590	Burmese
10.45-11.45	So. As.	9645/11920	Urdu
13.35-13.50	Gen. Overseas Sce.**	11672/21590	English
16.00-17.15	Afghan-Persian	6235/7010	Afghan/Persian
16.00-16.45	Iran	5980/7275	Persian
17.30-18.30	Arabic	7010/11672	Arabic
18.45-19.30	Turkish	7010/11672	English
19.45-20.30	U. K.	7010/11672	English

* to F. East. ** to M. East.

ANN.: E.: "This is R. Pakistan calling listeners in (name of target country)". - INT.-SIG.: A signal tune is played during interval signals. - V. by QSL-card. - PUB.: "Pakistan Calling" in English, Urdu, Bengali (fortnightly). Monthly Pub. in Arabic, Persian, Burmese.

★ **PHILIPPINES** ★

L.T.: GMT+8 h. - Pr.L.: English, Tagalog, Ilocano, Visayan. - Po.: 27.500.000. - Rvrs.: 1.000.000. - E.C.: 110/220 V., A.C., 60 c/s.

STATIONS:

Educ. and Go.: 3), 6), 22). Rel.: 1), 4), 11). *) inactive.

Other st.'s priv. comm. (2) is Go. owned, but broadc. comm. prgr.'s.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) DYB4	3277	91.55	1	840	Silliman University: See below
2) DUB4	3286	91.29	2	1190	Philippine Broadc. Sec.
3) DZCA	3305	90.77	1	550	Nat. Civil Defense Adm.: 08.00-11.00
4) DZB2	3345	89.68	2	**	Far East Broadc. Co.: 21.00-17.00
5) DXB3	3945	76.05	0.5	880	Notre Dame Broadc. Corp.: 22.00-14.00
6) DZB6	4945	60.67	0.5	1430	Nat. Teachers College: W. 09.30-11.00, Sun. 01.00-03.00
3) DZCA	5970	50.25	1	550	Nat. Civil Defense Adm.: 08.00-11.00
7) DZH4	6000	50.00	1	650	Voice of the Philippines: 21.00-15.00
4) DZH6	6030	49.75	2	**	Far East Broadc. Co.: 21.00-17.00
1) DYH4	6055	49.55	0.25	940	Silliman University: as 3277 kc/s
7) DZI7	6080	49.34	0.25	760	Voice of Manila: 21.00-16.00
7) DYH3	6100	49.18	0.25	820	R. Cebu: 21.00-15.00
8) DZI4	6110	49.10	7.5	580	Republic Broadc. System: 09.00-17.00
7) DYH2	6140	48.86	0.25	600	Voice of Cebu: 20.00-18.00
2) DUH2	6170	48.62	10	710	Philipp. Broadc. Sec.
9) DUH9	7160	41.90	1	1410	Univ. of the Philippines 09.00-13.00
4) DZI9	7240	41.44	50	**	Far East Broadc. Co.: 22.00-23.30
10) DXH2	7280	41.21	1	740	Mindanao College Broadc. System: 21.00-16.00
11) DZI2	9550	31.41	2	1000	Bolinao Electronics Corpo.: 21.00-17.00
2) DUH3	9570	31.35	0.25	710	Philipp. Broadc. Sec.
2) DUH4	*9615	31.20	10	710	Philipp. Broadc. Sec.
7) DZH2	9640	31.12	1	650	Voice of the Philippines: 21.00-15.00
12) DZH5	9690	30.96	0.25	860	University of Santo Tomas: 10.00-14.00
4) DZH7	9730	30.83	2	**	Far East Broadc. Co.: 22.00-17.00
7) DZH3	9750	30.77	1	800	R. Philippines: 21.00-15.00
2) DUH5	11840	25.34	10	710	Philipp. Broadc. Sec.
4) DZH8	11855	25.31	2	**	Far East Broadc. Co.: 22.00-17.00
4) DZF2	11920	25.17	50	**	Far East Broadc. Co.: 10.30-17.00
4) DZH9	15300	19.60	2	**	Far East Broadc. Co.: 22.00-17.00
4) DZF3	15385	19.50	50	**	Far East Broadc. Co.: 23.30-01.30
4) DZI6	17805	16.85	10	**	Far East Broadc. Co.: 23.00-15.15
4) DZI8	21515	13.94	2	**	Far East Broadc. Co.: 22.00-17.00

**=680/1030 kc/s.

Medium Waves: * Short Waves. ¹ also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
13) DZAA	540	0.5	8) DZXX	890	1	26) DYVM	1260	0.5
3) DZCA	*550	1	10) DXUM	900	1	27) DZBW	1270	0.5
14) DXAW	570	10	18) DYHF	910	1	18) DYRI	1280	5
8) DZBB	*580	10	1) DYCR	*940	5	21) DZEB	1290	1
7c) DYRC	*600	1	19) DZXL	960	50	21) DZRL	1300	1
11) DZAQ	620	50	21) DXJC	980	1	18) DYML	1310	1
16) DXBC	630	1	11) DZBC	*1000	1	18) DYRX	1320	1
7d) DZRH	*650	10	14) DXJW	1010	1	21) DXJL	1330	1
18) DYBC	660	1	8) DYSS	1020	1	11) DZMM	1340	1
79) DYPL	670	1	4) DZFE	*1030	1	2) DXRP	1350	1
4) DZAS	*680	10	11) DZRI	1040	1	23) DYRL	1360	1
2) DZFM	*710	10	11) DZRB	1060	1	21) DZBS	1370	1
16) DXIC	720	1	18) DYWX	1070	1	20) DZWS	1380	5
11) DZRD	730	1	25) DXVA	1080	1	24) DXRM	1390	1
10) DXMC	*740	5	10) DXCM	1090	1	19) DYXL	1400	5
7b) DZMB	*760	1	20) DZMT	1100	10	9) DZUP	*1410	1
15) DZCP	770	1	21) DZVS	1110	0.5	6) DXTC	*1430	1
16) DXCC	780	1	22) DYMM	1120	0.5	8) DYOO	1440	1
7e) DYVL	790	0.5	18) DYOR	1130	1	16) DXVM	1450	0.5
7a) DZPI	*800	10	19) DZQL	1160	1	17) DZYY	1460	1
7c) DYBU	*820	1	18) DYLL	1170	1	2) DZQE	1470	1
17) DZMY	830	5	14) DXWW	1180	1	10) DXKM	1470	1
1) DYRS	*840	1	2) DZRM	*1190	5	21) DXOC	1490	1
17a) DZDE	855	51	18) DYRM	1200	1	2) DYMR	1510	1
12) DXST	*860	1	18) DYOG	1210	1	17) DZEL	1540	0.25
19) DYQL	870	1	18) DZAL	1230	1	26) DYDR	1590	1
5) DXMS	*880	1	7f) DZHF	1250	1			

- 1) Silliman University, Dumaguete City. - L.P.: Dir. Adm.: H. W. Mack. Dir. Prgr.: C. Bernardez. Dir. Tec.: J. Olivar. D. PRGR. in English, Visayan: W. 21.00-06.00, 09.00-14.00, Sun. 21.00-14.00. - N.: 22.45, 05.00, 10.00, 11.00. - INT.-SIG.: Sign on: Battle Hymn of the Republic. - ANN.: "This is the Voice of Christian Brotherhood broadcasting stations of the Philippine Federation of Christian Churches, broadcasting in co-operation with Silliman University, Dumaguete City". - V. by QSL-card or letter. Re. in E. Prgr.s. schedule free on request. - F.P.L.: 20 kW sw-tr.
- 2) 5th Floor, GSIS Bldg., Manila. Cable: Philcast. Te.: 3-24-15. FL: By state and adv. - AD.: 16.6% of broadc. time. L.P.: Gen. Mgr.: J. Trinidad. Dir. Tec.: J. Dy (tr./s), L. Quintos (studios). HOME SERVICE on all m.w.-st.'s and 2 FM-st.'s: 21.00-15.15. N. in English: 22.45, 02.00*, 04.45, 06.45, 10.30, 14.00*, 14.10 (UN). - N. in Tagalog: 21.30, 05.00, 14.20 (UN). * = Asian News (relayed from R. Japan). Relay st.'s: DXRP Davao City, DZEQ Baguio, DYMR Cebu City. - ANN.: "This is the Philipp. Broadc. Sec. You are tuned to DZFM, the People's Station, broadcasting atop the GSIS Bldg. in Manila". - V. by QSL-card, R.p.
- 3) Independence Grandstand, Luneta, Manila. - L.P.: Adm.: A. G. Eugenio. Dir. Tec.: Miss A. Clemente. - D. PRGR. in English and Tagalog: N. in English: 08.30, 09.30, 10.30. - ANN.: "You are listening to R. Station DZCA owned and operated by the National Civil Defense Administration of the Philippines". - V. by letter. Re. in E.
- 4) FL: FEBC is a non-profit, non-commercial missionary organization being sustained by free-will gifts and offerings from interested friends. - ADDR.: Box 2041, Manila. Cable: FEBCOM. Te.: 2-1057. - L.P.: Pres.: R. H. Bowman. Vicepres.-Secr.: Wm. J. Roberts. Treasurer: A. Nelli. Philipp. Adm. Dir.: M. D. Atienza. Dir. Prgr.: R. H. Baettcher. Dir. Tec.: R. A. Reynolds. PHILIPPINE SERVICE: On 680/3345/6030 kc/s: 20.55-15.00 (Sun. 15.30). 21.00-23.00 Philippine dialects, 23.00-01.45 English, 01.45-02.30 Tagalog, 02.30-04.30 English, 04.30-05.30 Chinese, 05.30-09.30 English, 09.30-11.30 Philippine dialects, 11.30-13.30 English, 13.30-14.00 Tagalog, 14.00-17.00 (Sun. 17.30) English. Manila's Fine Music Station on 1030 kc/s carries classical music and is joined by the following shortwave transmitters: 22.00-23.30 21515 kc/s, 23.30-24.00 15385/21515 kc/s, 02.00-02.30 17805/21515 kc/s, 03.00-04.00 11855/15300/17805/21515 kc/s, 09.30-12.30 15300/21515 kc/s. OVERSEAS SERVICE: 22.00-23.00 Mandarin 7240/9730/11855/15300 kc/s. 23.00-23.30 Cantonese 7240/9730/11855/15300/17805 kc/s. 23.30-23.45 English 9730/11855/15300/17805/21515 kc/s. 23.45-00.30 English 9730/15385 kc/s. 23.45-24.00 Indonesian 11855/17805 kc/s. 24.00-01.00 Thai, Lao 11855/17805/21515 kc/s. 00.30-01.30 Singhalese, Burmese 15385 kc/s. 01.00-01.30 English 11855/17805 kc/s. 01.30-02.30 English 17805/21515 kc/s. 01.30-02.30 Mandarin 11855/15300 kc/s. 02.30-04.15 English 11855/15300/17805/21515 kc/s. 04.15-05.15 Vietnamese, Cambodian 11855/15300/17805 kc/s. 05.15-06.30 Cantonese, Amoy 11855/15300/17805/21515 kc/s. 07.30-09.00 English 9730/11855/15300/17805/21515 kc/s. 09.00-10.30 Amoy, Indonesian 9730/11855/17805 kc/s. 10.30-12.00 Japanese 9730/11920/17805 kc/s. 12.00-12.30 Thai 11920/17805 kc/s. 12.30-13.00 English 9730/11920/21515 kc/s. 12.30-13.45 Lao, Cambodian, Vietnamese 15300/17805 kc/s. 13.00-14.30 Indian vernacular 11920/21515 kc/s. 13.45-16.00 Chinese 15300/17805/21515 kc/s. 14.30-16.00 English 9730/11920 kc/s. 16.00-17.00 Russian 9730/11920/21515 kc/s. 16.00-17.00 Chinese 6030/15300 kc/s. ANN.: E.: Philippine Sec.: "This is the Call of the Orient. (Chimes - 13 seconds). The Philippine Sec. of the Far East Broadcasting Company, DZAS 680 kc/s medium wave and related short wave stations in the 89 and 49 meter bands... from Manila. This is the Call of the Orient... DZAS, DZB2 and DZH6... The Philippine Sec. of the Far East Broadcasting Company... serving the Philippines". Overseas Sec.: "This is the Call of the Orient (chimes - 13 seconds) the Overseas Sec. of the Far East Broadcasting Company operating in the ... meter bands. This is the Call of the Orient, Manila, operating at ... mc/s". - INT.-SIG.:



V. by QSL-card and letter. R.p. is welcomed. Separate card used for each freq. - PUB.: prgr.s. schedule free on request.

- 5) Cotabato City, Cotabato.
- 6) National Teachers College, P.O. Box 3032, Manila. - ANN.: E.: "This is the Voice of Education". - V. by letter.

Philippines – Ryukyu Islands

- 7) **MANILA BROADCASTING COMPANY** – Addr.: Radio Center Philippines, 964 Taft Avenue, Manila. Cable: "MAN-BROADCAST". – L.P.: Gen. Mgr.: Ira Davis.
- a) **THE VOICE OF PHILIPPINES** – Addr.: R. Center Philippines 964 Taft Avenue, Manila. – **HOME SCE. in English, Tagalog:** N. in English: W. 00.00, 05.05, 13.00. **Wp.**: Usually in the mornings. In the presence of a storm in the archipelago several times during the day.
- b) **THE VOICE OF MANILA** – Addr.: R. Center Philippines, 964 Taft Avenue, Manila. – **HOME SCE. in English, Tagalog:** N. in English: D. 05.15 (Ann.: Cris de Vera).
- c) **CEBU BROADCASTING COMPANY**: ("VOICE OF CEBU" & "RADIO CEBU"): Addr.: Lim Bon Fing Building, Cebu City. **HOME SCE. in English & Visayan:** N. in English: Sun. 03.15. Mo.–Sat.: 23.15, 15.00, 08.30, 13.45 (Ann.: S. D. Tecson). – **INT.-SIG.**: For DYRC musical chimes: Sol-mi-do. – **F.P.L.**: DYRC 5 kW.
- d) **RADIO PHILIPPINES** – Addr.: R. Center Philippines, 964 Taft Avenue, Manila. – **HOME SCE. in English, Spanish, Tagalog:** N. in English: D. 01.00. Spanish: D. 04.30–05.15. Chinese hour: Mo.–Sat. 06.00–06.30.
- e) **THE VOICE OF LEYTE** – Addr.: Red Beach, Palo, Leyte. – Broadcasts in English and Waray-Waray dialect.
- f) **METROPOLITAN BROADCAST CO.** – Addr.: R. Center, 964 Taft Ave., Manila. – V. all st.'s verify by QSL-card. R.p.
- 8) **RBS Building Highway 54, Diliiman, Q.C. Cable: "Robstew"**. – **HOME SCE. in English, Chinese, Tagalog:** DZBB: 22.00–18.00; DZXX: 21.00–18.00; DYSS: 20.00–18.00; DYOO: 20.00–16.00.
- 9) **College of Arts and Science, University of the Philippines, Diliiman, Rizal.** – L.P.: Dir. Gen.: Mrs. C. V. Fonacier, St. Dir.: D. O. Bagñio. Dir. Tec.: Prof. M. Yagore. – **D. PRGR. in English:** N.: Fri. 11.00–11.15. – V. by letter (later by QSL-card). Re. in E. Prgr. schedule free on request.
- 10) **3rd Floor, Development Bank of the Philippines Bldg., Claveria St., Davao City.** – L.P.: Dir. Gen.: G. E. Torres. St. Mgr.: R. Benedicto. Dir. Tec.: I. Jardin.
- D. PRGR. in English, Tagalog:** On 740/7280 kc/s: 21.00–16.00. On 900/1090/1470 kc/s: 22.00–14.00. – N.: 740/7280 kc/s: 23.00, 05.00, 10.45, 13.00, 900 kc/s: 22.45, 04.00, 11.00, 1090 kc/s: 23.00, 04.30, 12.15. – **ANN.**: "This is MBS, the Mindanao Broadcast System... the Voice of Mindanao DXMC... Melody station in Mindanao DXUM... the Voice of Cotabato DXCM". – V. by QSL-card. Re. in E. Sp. Prgr. schedule on request.
- 11) **P.O. Box 1344 Manila DZAQ, DZBC: ABS Bldg., Dewey Blvd., Manila. DZRD/DZRI: Blue Beach, Dagupan City. DZMM: San Juan. DZRB: El Morocco Hotel, Naga City.** – **D. PRGR. in English, Tagalog:** DZAQ: 21.00–16.00. DZBC: 20.00–17.00. DZRD/DZRI: 21.00–16.00. DZMM: 24 h. DZRB: 21.00–01.00, 04.00–14.00.
- 12) **The Voice of the Catholic Philippines, University of Santo Tomas, Espana, Manila.** – **D. PRGR. in Tagalog, English & Spanish:** N. in English: 10.15. N. in Spanish: 12.15. – **ANN.**: E.: "This is the Voice of the Catholic Philippines, Radio Station DZST and DZHF, broadcasting from Manila". – **INT.-SIG.**: Chimes. – V. by QSL-card.
- Medium Waves:**
- 13) **Pacific Broadcast System, Inc., Eden Hotel, Legaspi City.** – **D. Prgr.**: 21.00–15.00.
- 14) **Pioneer Station, P.O. Box 121, Davao City. DXWW (Davao City): 22.00–15.00. DXJW (Zamboanga City): 22.00–14.00. DXAW (Davao City): 21.00–16.00 in English, Visayan.**
- 15) **Radio Station DZCP, Roman Santos Bldg., Manila.** – **D. Prgr.**: 21.00–16.00.
- 16) **R. Mindanao: Cagayan de Oro City.** – **D. Prgr.**: 22.00–14.00 in English, Visayan on DXBC (Butuan City), DXIC (Iligan City), DXCC/DXVM (Cagayan de Oro City).
- 17) **Monserat Broadcast System, CBN Bldg., Aduana Str., Intramuros, Manila.** – **D. Prgr.**: DZMY (Angono, Rizal) 21.00–17.00. DZYY-FM (Minala): 24 h.
- 17a) **R. Station DZDE, P.O. Box 23, Naga City, Camarines Sur.** – **D. Prgr.**: 23.00–14.00.
- 18) **Visayan Broadcast System, P.O. Box 41, Iloilo City.** – L.P.: Dir.: E. Lopez. – **D. Prgr.**: DYBC (Cebu City): 21.00–16.00. DYHF (Iloilo City): 21.00–15.00. DYLL (Tacloban): 21.00–16.00. DYRI (Iloilo City): 21.00–16.00. DYWX (Bacolod City)/DYOR (Ormoc City)/DYRM (Dumaguete City)/DYOG (Calba yag City)/DZAL (Legaspi City)/DYML (Tagbilaran, Bohol), DYRX (Roxas City): 21.00–16.00.
- 19) **Chronicle Broadcast Network, CBN Bldg., Aduana, Str. Manila. Cable: "CBN, Manila".** Te.: 30061. – L.P.: Gen. Mgr. & Executive Vice Pres.: E. Lopez Jr. Dir. Tec.: R. Carballo. – **D. Prgr.**: DYPL (Iloilo City)/DYJL (Bacolod City): 21.00–16.00. DZXL (Angono, Rizal): 21.00–15.00. DZOL (Angono, Rizal): 24 h. DYXL (Bacolod City): 21.00–16.00. DZYL-FM (Manila): 21.00–15.00. DXJW: 22.00–14.00. – **ANN.**: "CBN – the Chronicle Broadcast Network" (St. 17) belongs to 19).

- 20) **Manila Times Publishing Co., Manila.** – **D. Prgr.**: DZMT DZMT-FM: 24 h. DZWS: 21.00–16.00.
- 21) **Oceanic Wireless Network, Inc., Alliance Bldg., Rosario, Manila.** – **D. Prgr.**: 22.00–16.00 on DXJC (Jolo, Sulo), DZVS (Sogorson), DZEB (Naga City), DZRL (Laoag), DXIJ (Zamboanga City), DZBS (Baguio City), DXOC (Ozamis City).
- 22) **R. Station DYMM, Bacolod City.** – **D. Prgr.**: 21.00–17.00.
- 23) **Bacolod Broadcast System, Lacson Str., Bacolod City.** – **D. Prgr.**: 21.00–16.00. – V. by QSL-card or letter.
- 24) **Mindanao Broadcast Co., Marawi City.** 22.00–13.00.
- 25) **Agusan Broadcast Co., Butuan City.** – **D. Prgr.**: 21.00–16.00.
- 26) **Central Philippines Broadcast Co., 148 Colon St., Cebu City.** – **D. Prgr.**: 21.00–16.00.
- 27) **Liberty Broadcast Network, Dagupan City.**
- 28) **Philippines Broadcast Network, P.O. Box 23, Naga City, Camarines Sur.** – **D. Prgr.**: 23.00–14.00.

VOICE OF AMERICA RADIO STATION

ADDR.: Voice of America, Washington 25, D.C., USA.

STATIONS:

Medium Waves: Malolos A: 920 kc/s 326 m 50 kW: 11.00–16.30, 22.00–23.30. – **Poro A:** 1140 kc/s 263 m 1000 kW: 11.30–16.30.

Short Waves: Malolos 7.5/50 kW: 11.00–16.30, 22.00–23.30

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6185	48.50	11785	25.46	15210	19.72	17745	16.91
7135	42.05	15155	19.80	15250	19.67		

Poro 35/100 kW: 09.00–17.15, 22.00–02.30

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6125	48.98	11895	25.22	15185	19.76	15400	19.48
7175	41.81	15125	19.83	15335	19.56	17775	16.88
9535	31.46	15130	19.83	15360	19.53	17855	16.80
9580	31.32						

D. PRGR.: Medium Wave 920 kc/s: 11.00–16.30 English, 22.00–22.30 Mandarin, 22.30–23.00 Cantonese, 23.00–23.30 English.

Medium Wave 1140 kc/s:

11.30–12.00 Mandarin 13.15–14.00 Burmese 15.30–16.00 Vietnam.
12.00–12.30 Cantonese 14.00–14.30 Amoy 16.00–16.30 English
12.30–13.00 Vietnam 14.30–15.00 Mandarin

13.00–13.15 English 15.00–15.30 Cantonese **Short Wave:** see USA.

ANN.: "This is the Voice of America Relay station in the Philippines".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. – V. by QSL-card.

ARMED FORCES RADIO & TV SERVICE: see USA.

★ RYUKYU ISLANDS ★

L.T.: GMT+9 h. – **Pr.L.**: Japanese, English, Okinawan. – **Po.**: 882.922. – **Revs.**: 200.000. – **E.C.**: 110 V, A.C., 60 c/s.

RYUKYUS BROADCASTING CORPORATION (Comm.)

ADDR.: CPO Box 4, Naha, Okinawa. **Te.**: 8-4161.

L.P.: Pres.: S. Zayasu. Dir. Prgr.: (KSAB) K. Kabira, (KSBK) D. I. Lock. Dir. Tec.: T. Washimine.

HOME SERVICE

KSAR 740 kc/s 3 kW: 20.00–16.00 in Japanese

KSBK 880 – 3 – : 21.00–15.00 in English

N. in English: every h. on the h.

ANN.: "KSAR", "RBC" or "Ryukyu hoso des" every 15 or 30 min.

KSBK: "Radio 880". – V. by QSL-card.

FAR EAST BROADCASTING CO. (Non-Comm., missionary)

ADDR.: CPO Box 55, Naha. – **FI.**: By freewill gifts. **Cable:** Febcom. **Te.**: 37287.

L.P.: Dir.: J. Lentz. Dir. Tec.: D. Hudson. Dir. Prgr.: D. Wilkinson.

STATIONS:

KSAB 1020 kc/s 1 kW **KSBU** 850 kc/s 100 kW

KSDX 1250 kc/s 1 kW

D. PRGR.'s: **KSAB:** English: W.: 20.40–04.00, 07.00–14.00. Sun.: 22.30–06.00, 08.30–14.00. – **N.**: W.: 21.55, 22.55, 23.55, 00.55, 02.45, 08.45, 11.45. Sun.: 03.00, 08.45, 11.45.

KSDX: Japanese: D.: 22.00–04.30, 08.30–17.00. – **N.**: D.: 22.30, 23.30, 02.30, 03.30, 09.30, 12.30, 14.10.

KSBU: Chinese (beamed towards Shanghai): 07.30–10.00.

ANN.: Call letters every 15 or 30 min.

INT.-SIG.: **KSAB:** Chimes "Jesus Saves". – V. by QSL-card. R.p. preferred.

RADIO OKINAWA CO. LTD. (Comm.)

ADDR.: CPO Box 405, Naha, Okinawa. **Te.**: 8-5128. – **L.P.**: Pres.: S. Kishimoto. Dir. Prgr.: Z. Onaha. Dir. Tec.: T. Taguchi.

STATION: KSDT 790 kc/s 3 kW: 20.00–15.00 in Japanese.

ANN.: "KSDT, ROK" or "Radio Okinawa des" at 15 or 30 min. intervals. – **INT.-SIG.**: Chimes or audio tones. – V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR.: Voice of America, Washington 25, D.C., USA.

STATIONS:

Medium Wave: Okinawa-A 1180 kc/s 254 m 1000 kW: 11.00-16.30.
Short Wave: Okinawa 35/100 kW: 09.00-16.30, 20.00-01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6010	49.92	7125	42.11	7235	41.47	9710	30.90
6075	49.38	7155	41.92	9615	31.20	11960	25.08
6145	48.82	7160	41.90	9665	31.04	15215	19.72

D. PRGR.: Medium Wave:

11.00-11.30 English 12.30-13.00 Mandarin 14.30-15.00 Mandarin
11.30-12.00 Mandarin 13.00-13.30 Korean 15.00-15.30 Russian
12.00-12.30 Russian 13.30-14.00 Mandarin 15.30-16.00 Mandarin
14.00-14.30 English 16.00-16.30 English

Short Wave: see USA.

ANN.: "This is the Voice of America Relay St. on Okinawa".

INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card.

★ SARAWAK (British) ★

L.T.: GMT +8 h. - Pr.L.: English, Malay, Chinese, Dayak. - Po.: 750.000. - Rvrs.: 35.000. - E.C.: 400/230 V., A.C., 50 c/s.

SARAWAK BROADCASTING SERVICE (Go.)

ADDR.: Radio Sarawak, Broadcasting House, Kuching. Cable: Broadcast. Te.: 2345.

L.P.: Dir. Broadc.: P. Ratcliffe, OBE. Dir. Prgr.: M. Salleh Askor (Acting). Dir. Tec.: J. R. Sandison.

HOME SERVICE

730 kc/s	410.9 m	10 kW	4950 kc/s	60.60 m	5/7.5 kW
850	352.9	5	7160	41.90	7.5
4835	62.05	5	9565	31.36	5

Morning Service on 730/4950/7160 kc/s: 23.00-00.15 D. in English, Malay, Chinese, Dayak - Service for Schools on 730/7160/9565 kc/s: 01.00-02.00 Mo.-Fri. during term - Midday Service on 730/7160/9565 kc/s: 04.00-05.00 Mo., Wed.: Malay; Tues., Sat.: Chinese; Thurs.: Dayak; Fri., Sat., Sun.: English; 05.00-05.30 D. in English; 05.30-06.30 Sat., Sun. in English.

English Sec.: D. 10.30-12.00, 13.00-14.30 on 730/4950 kc/s. - Chinese Sec.: D. 08.30-10.30, 12.00-13.00 on 730/4950 kc/s. - Malay Sec.: D. 08.30-10.30, 12.45-14.00 on 850/4835 kc/s. - Dayak Sec.: D. 10.30-12.45 on 850/4835 kc/s.

N. in English: 11.00 (Home N.), 13.00 (BBC), 23.00 (BBC).

ANN.: English: "This is Radio Sarawak". - INT.-SIG.: A musical phrase played on a Dayak instrument, the Sape. - V. by letter.

★ SAUDI ARABIA ★

L.T.: GMT +3 h. - Pr.L.: Arabic, English. - Po.: 6.000.000. - Rvrs.: 25.000. - E.C.: 110/220 V., A.C., 60 c/s.

SAUDI ARABIA BROADCASTING (Go.)

ADDR.: General Directorate of Press and Broadcasting and Publications, Jeddah. Cable: Broadcasting. - L.P.: Supervisor Gen. of Broadc., Press & Publication: Sheikh A. Balkhair. Dir. Gen.: H. E. Sheikh Jamil Alhijailan. Dir. Prgr.: A. Gazawi. Dir. Tec.: A. Andreou. STATIONS: Jeddah. (* = omnidirectional)

723 kc/s	414 m	50 kW*	5975 kc/s	50.21 m	3 kW d. Ea.
6100	49.18	3	d.No.11950	25.10	10

HOME SERVICE in Arabic: Approx. 04.00-06.15, 11.00-12.45, 17.00-17.35, 18.00-21.00. - H. of tr. depends on sunset.

FOREIGN SERVICE: Indonesian 13.00-14.00 (N. 13.45). Urdu 14.00-15.00 (N. 14.15)

ANN.: Home Sec.: "El Izaa el Arabia el Scoudia". Foreign Sec.: "Disini Radio Saudi Arabia" (Indonesian). "Mecca Mukarama Kay Awas Saudi Arab Radio" (Urdu). - INT.-SIG.: Call to prayer (az'an) played on flute. - V. by letter.

F.PL.: Jeddah: 2 s.w. tr.'s 50 kW before April 1962. Riyadh: 50 kW m.w. and 100 kW s.w. tr. within 3 years. English Prgr.'s.

★ SINGAPORE (British) ★

L.T.: GMT +7½ h. - Pr.L.: English, Malay, Chinese, Tamil. - Po.: 1.680.000. - Rvrs.: 121.000. - E.C.: 230 V., A.C., 50 c/s.

RADIO SINGAPORE (Go.)

ADDR.: Broadcasting Division, Ministry of Culture, P. O. Box 1902, Singapore. Cable: Broadcast. Te.: 52201.

L.P.: Head of Broadc. Div.: J. H. Duclos. Dir. Tec.: G. Ang. Contr. Prgr.s: C. V. Doral. Comm. Mgr.: L. H. Foong.

HOME SERVICE: 22.30-16.30. *) = Suara Singapura.

630 kc/s	10 kW	7250 kc/s	7.5 kW	English
680	10	4780	7.5	Chinese
790	10	6175	7.5	Malay/Tamil
990	20	4820	5	National Service*)

English Service on 7250 kc/s: Mo.-Fri.: 22.30-01.30, 03.30-07.30 09.30-16.30; Sat.: 22.30-01.30, 03.30-16.30; Sun.: 22.30-16.30.

School Broadcasts: Mo.-Thurs.: 01.30-02.30, 08.40-09.30. - N.: 23.30 00.30, 06.00, 11.30, 14.00.

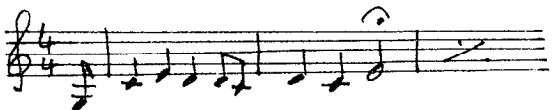
Chinese Service on 4780 kc/s: Mo.-Fri.: 22.30-01.30, 03.30-07.30, 08.30-16.30; Sat.: 22.30-01.30, 03.30-16.30; Sun.: 22.30-16.30. School Broadcasts: Mo.: 01.30-02.45, 07.30-08.30; Thurs.: 07.30-08.30; Wed., Fri.: 01.30-02.45.

Indian Service (Tamil/Hindustani) on 6175 kc/s: W.: 22.30-23.45, 05.45-07.30, 09.00-12.00; Sun.: 22.30-23.45, 01.30-03.30, 05.45-08.00, 09.00-12.00. School Broadcast: Tues., Thurs., Fri.: 03.00-04.30.

Malay Service on 6175 kc/s: Mo.-Thurs.: 23.45-01.30, 04.30-05.45, 12.00-16.30; Fri.: 23.45-01.30, 04.30-05.45, 07.30-09.00, 12.00-16.30; Sat.: 23.45-01.30, 02.30-05.45, 07.30-09.00, 12.00-16.30; Sun.: 23.45-01.30, 03.30-05.45, 08.00-09.00, 12.00-16.30. School Broadcasts: Mo., Wed.: 01.30-04.30, 07.30-09.00; Tues., Thurs.: 02.30-03.00, 08.30-09.00. N. 00.00, 05.30, 13.00, 14.00.

National Service on 4820 kc/s: 10.30-15.30.

ANN.: E.: "This is Radio Singapore" - INT.-SIG.: First two bars of "Ikan Kekek". - V. by QSL-card.



FORCES BROADCASTING SERVICE (British Mil.)

ADDR.: Forces Broadcasting Unit, GHQ FARELF, c/o GPO Singapore. Te.: 2801. - L.P.: St. Comm.: W.J.O. Ettridge.

D.PRGR.: 5010 kc/s 59.88 m 7.5 kW: 10.45-14.00.

British Prgr.: D. 10.45-12.00. N.: 11.00. - Gurkha Prgr.: D. 12.00-14.00. N.: 12.30. - ANN.: "This is the Forces Broadcasting Service Singapore". - V. by letter.

BBC FAR EASTERN STATION

ADDR.: Caldecott Hill Studios, P. O. Box 434, Singapore. Cable: Fibroadcast. Te.: 86321. - L.P.: Head of Sec.: G. A. Tree.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6110	49.10	11725	25.59	15360	19.53	21640	13.86
6175	48.58	11780	25.47	15420	19.46	21650	13.86
7110	42.19	11820	25.38	15435	19.44	21655	13.86
7135	42.05	11880	25.25	17755	16.90	21720	13.81
7260	41.32	11920	25.17	17790	16.86	21740	13.80
9560	31.38	11930	25.15	17870	16.79	25650	11.70
9625	31.17	11955	25.09	17890	16.77	25850	11.61
9690	30.96	15300	19.61	21485	13.96		
9725	30.85	15310	19.60	21610	13.88		

Relays of General Overseas Sec.	H. of tr.	m.b. All the year round
(See page 82)		
No. & Ea. China,	} 09.15-11.30 11.30-13.45	25, 19, 16, 13 19
Hongkong		
Korea, Japan		
So. China, Vietnam, Laos,		
Cambodia:	09.15-11.30	31, 25, 19, 16
	11.30-13.00	19
	13.00-13.45	31, 19
	13.45-16.50*	31, 25
Indonesia:	09.15-10.30	41, 31, 25
	11.00-11.30	41, 31, 25
Burma, Thailand.	13.00-13.45	31, 25, 19
	13.45-16.50*	31, 25
India, Pakistan, Ceylon,	13.00-13.45	25, 19
	13.45-15.45	31, 25
	15.45-16.50*	31, 25
Australia:	13.00-13.15	31, 25, 19

*) Oct.-March closes 16.35 Mo.-Fri., 17.20 Sat.

Relays of Asian Service:

	Language:	H. of tr.	m.b.
Japan:	Japanese	11.00-11.30	25
China, Vietnam	} Kuoyo	12.00-12.30	31, 25, 16, 13
Laos, Cambodia:		12.30-12.45	31, 25, 16, 13
Vietnam, Laos)	Cantonese		
Cambodia:	Vietnamese	11.30-12.00	31, 25, 19
Indonesia:	Indonesian	10.30-11.00	41, 31, 25
Burma, Thailand:	Burmese	13.15-13.45	31, 25, 19
India, Pakistan)	So. Asian Reg.		
Ceylon:	} Languages*	13.45-14.15	25, 19
		14.15-15.00	25, 19
		15.00-15.45	25, 19

*) Sinhalese: Tues., Fri. - Tamil: Sun., Thurs. - Bengali: Mo. Wed., Sat.

REDIFFUSION (SINGAPORE) LTD. A subsidiary of Rediffusion Ltd. London (Comm.). - FL: By wired subscription charges and adv. -

ADDR.: P.O. Box 608, 182 Clemenceau Ave. Cable: Rediffuse. Te.: 25011. - L.P.: Man. Dir.: G. H. Oldridge. St. Mgr.: R. J. Warren. - D. PRGR.: 2 simultaneous wired broadcasting networks. Originating own prgrs. and rel. "Radio Singapore", B.B.C., etc. D. 23.30-16.30.

Syria - Turkey

★ SYRIA ★

L.T.: GMT+2 h. Pr.L.: French, Arabic. - Po.: 4.200.000. Rvrs.: 550.000. E.C.: 110 V., A.C., 50/60 c/s.

SYRIAN BROADCASTING SERVICE (Go.)

ADDR.: Rue de la Victoire, Damascus. - L.P.: Dir. Gen.: Y. El-Shahabi.

STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
584	513.8	5	746	402.0	2	7398	40.56	7
602	498.2	2	863	347.6	10	11750	25.53	20
665	451.2	50	1313	228.5	10	15165	19.78	20
710	417.2	2	5675	52.80	20	17865	16.80	20

HOME SERVICE:

Arabic: 04.00-08.00, 11.30-14.00, 15.00-23.00 on 584/665/746/1313/5675/11750 kc/s; 07.00-17.00 on 7398 kc/s; 08.00-11.00, 14.00-15.00 on 602/719/863 kc/s. - English: 05.30-06.15, 15.30-17.30 on 602/719 kc/s. - French: 06.15-07.30, 17.30-19.30 on 602/719 kc/s. - Hebrew: 14.00-15.00 on 665 kc/s. - Turkish: 11.00-11.30 on 665/746/5675 kc/s.

FOREIGN SERVICE:

French (to Europe): 19.30-20.00 on 15165 kc/s - English (to Europe): 20.00-20.30 on 15165 kc/s - Arabic (to No. Africa): 21.00-22.00 on 15165 kc/s - Arabic & Spanish (to Central & So. America): 00.00-02.00 on 15165/17865 kc/s.

ANN.: Arabic: "Houna Dimashk". E.: "This is Damascus Calling". F.: "Ici Damas". S.: "Aqui Damasco". Hebrew: "Kol Damassch". V. by QSL-card and letter.

★ THAILAND ★

L.T.: GMT+7 h. - Pr.L.: Thai. - Po.: 24.800.000. - Rvrs.: 800.000. - E.C.: 110/220 V., A.C., 50 c/s.

THE THAI NATIONAL BROADCASTING STATION (Go.)

ADDR.: Public Relations Department, Bangkok.

STATIONS:

Call	kc/s	m	kW	Call	kc/s	m	kW
-	810	370.4	-	-	6090	49.26	-
HSK	830	361.0	10	-	6380	47.06	-
-	856	350.4	-	HSK6	7145	41.99	1
-	915	326	-	-	7305	41.07	-
HSK4	4830	62.10	1	-	8500	35.29	-
-	6010	49.92	-	HSK7	11910	25.18	0.5
HSK5	6070	49.42	1	HSK9	11910	25.18	50

HOME SCE.: 00.00-01.00, 12.00-15.30 on 830/4830/6070/7145/11910 kc/s in Thai. N.: 13.00 - Other languages: English: 23.30-01.00, 05.30-07.00 on 915/6010 kc/s - French (Mo.-Fri.): 05.30-06.00 on 8500/11910 kc/s - Chinese: 02.30-02.45, 04.30-04.45 on 856/690 kc/s - Laotian: 02.00-03.30 on 810/830/4830 kc/s, 13.05-13.30 on 856/6090 kc/s - Malay: 06.30-06.45 on 856/6090 kc/s.

FOREIGN SERVICE:

To No. America: 04.15-05.15 on 11910 kc/s (HSK9). N. in English: 04.25-04.40.

To Thai Forces in Korea, Vietnam, Cambodia: 09.30-10.20 on 6380/7305/11910 kc/s. N. in Thai: 09.32 - Vietnamese: 09.45 - Cambodian: 10.00.

General Overseas Sce.: 10.25-11.57 on 6380/7305/11910 kc/s. N. in English: 10.30-10.45 - Malay: 11.30 - Chinese (Kuoyu): 11.45.

Relay Home Sce.: 13.00-14.00 on 11910 kc/s.

ANN.: E.: "This is the Overseas Broadcasting Station of Thailand".

INT.-SIG.:



V. by letter and QSL-card. All correspondence to be addressed to: The Overseas Broadcasting Division, Public Relations Dept., Bangkok.

MINISTRY OF EDUCATION (Go.)

ADDR.: Division of Educational Inf., Ministry of Education, Bangkok. - L.P.: Dir. Div. of Educational Inf.: Mrs. A. Meesok. Dir. Tec.: S. Hongpromyat.

HOME SCE.: 11.00-13.00 in Thai, English:

1180 kc/s 254.2 m 2 kW - 3202 kc/s 93.69 m 2 kW - 6062 kc/s 49.48 m 2 kW. - N.: 11.35, 12.55. - Nat. Music: 12.10-12.55. - English: Wed. 11.50-12.10; one Tues. monthly 12.10-12.55.

ANN.: E.: "This is the Education Broadcasting Station of Thailand, broadcasting on a frequency of..." - V. by letter. - F.P.L.: Increase to 10 kW.

R. STATION HS1JS (Go., Comm.)

FL.: By State and adv. - ADDR.: Bang-Sue, Bangkok. Te.: 46591. - L.P.: Dir. Gen.: K. Kengradomying. Dir. Tec.: S. Boonyanit.

HOME SCE. in Thai: 23.00-16.00.

HS1JS 650 kc/s 461.5 m 10 kW HS3JS 1085 kc/s 276.0 m 1 kW HS4JS 1400 kc/s 214.3 m 1 kW

N.: 05.00, 10.30, 15.00. - ANN.: "Tee-Nee Satanee Vittayu Krachai-siang Cho-So". - F.P.L.: Two 10 kW m.w. st.'s within 5 years.

PITUKSUNTIRADSE RADIO STATION (Go.)

ADDR.: Paruksakavun Palace, Bangkok.

HOME SERVICE in Thai: HSO

Network I: 23.00-01.00, 09.00-13.00.

900 kc/s 333.3 m - 4770 kc/s 62.89 m - 7230 kc/s 41.49 m à 1 kW.

Network II: 04.00-07.00, 09.00-15.00.

995 kc/s 301.5 m 0.25 kW - 1400 kc/s 214.3 m 1 kW.

Network III: 23.00-02.30, 05.00-06.00, 08.30-15.15.

1080 kc/s 277.8 m - 4620 kc/s 64.93 m - 5850 kc/s 51.27 m - 7620 kc/s 39.37 m - 0.5 kW.

INT.-SIG.:



THAI TELEVISION CO. LTD. (Comm.)

ADDR.: Mansion B. Rajadamnern Ave., Bangkok. Cable: "Thaitevi". Te.: 25061. - L.P.: Managing Dir.: N. P. Hongsanand.

HOME SERVICE in Thai: 22.57-16.20.

1146 kc/s 262 m - 1500 kc/s 200 m - 5270 kc/s 56.93 m: N.: 16.00.

ANN.: E.: "This is Thai TV-Radio, the broadcasting station of the Thai Television Company"

★ TURKEY ★

L.T.: GMT+2 h. - Pr.L.: Turkish. - Po.: 28.000.000. - Rvrs.: 1.297.378. - E.C.: 220 V., E.C., 50 c/s.

RADIO ANKARA (Go.)

ADDR.: Office: Turkish Press, Broadcasting and Tourist Dept., Ankara. Cable: Basin-Yayin, Ankara.

HOME SERVICE in Turkish:

Ankara	182 kc/s	1648 m	120 kW	Mo.-Fri. 04.57-08.00, 09.57-13.00, 14.57-22.00. Sat: 04.57-08.00, 09.57-22.00. Sun. 05.27-22.00.
-	9745	30.78	20	-
Istanbul	701	428.0	150	- W. 05.27-08.00, 09.57-22.00. Sun. 05.27-22.00.
Van	6025	49.79	0.4	- D. 06.00-07.00, 10.00-11.30, 13.00-17.00.
Izmir	6085	49.30	0.4	- D. 07.58-10.00, 14.58 (Sun. 13.58)-20.00.
Erzurum*	7650	39.21	1	- D. 04.30-06.00, 10.00-11.30 (Sun. 12.00), 16.00-19.30.

Diyarbakir 9760 - 30.74 - 0.3 - D. 10.00-11.30, 17.00-19.00.

Iskenderun 9770 - 30.70 - 0.3 - D. 10.00-11.00, 17.00-19.00.

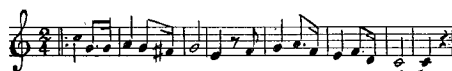
*) Local prgr. or relay of R. Ankara.

ANN.: "Burası Ankara" (This is Ankara) or "Burası Istanbul Radyosu" (This is Radio Istanbul).

INT.-SIG.: R. Ankara:



R. Istanbul:



F.P.L.: Before the end of 1961: 100 kW st. at Izmir (971 kc/s) and 2 kW st.'s at Istanbul (1349 kc/s), Izmir (944, 971, 1358 kc/s), Ankara (980 kc/s), Antalya (1214 kc/s), Adana (1313 kc/s), Gaziantep (1142 kc/s) and Kars (1313 kc/s). Before the end of 1962: 100 kW st.'s at Erzurum and Adana-Mersin.

FOREIGN SERVICE: R. Ankara 100 kW:

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
TAS	7285	41.18	TAT	9515	31.53	TAV	17820	16.84
Arabic	kc/s		Greek	kc/s		Rumanian	kc/s	
05.00-05.45	9515		18.15-18.45	7285		16.45-17.00	7285	
15.30-16.00	9515		Hungarian			Serbian		
17.30-18.00	9515		18.45-19.00	7285		16.30-16.45	7285	
Bulgarian			Italian			Spanish		
17.00-17.15	7285		19.45-20.15	7285		22.45-23.00	17820	
English			Persian			Turkish		
13.45-14.15	17820		13.30-13.45	17820		11.00-12.00	9515	
21.45-22.30	7285		15.00-15.30	9515		16.00-16.15	9515	
23.15-24.00	9515		Polish			20.45-21.45	7285	
French			19.00-19.15	7285		Urdu		
20.15-20.45	7285		Pushtu			14.15-14.45	17820	
German			13.00-13.30	17820				
19.15-19.45	7285							

ANN.: "Burası Türkiye Radyoyayın Postaları Kisa dalga Ankara Radyosu" (This is the Turkish Broadc. Sces. S.W. Ankara R.).
INT.-SIG.: An old Turkish dance-tune "Sari Zeybek".



V. by QSL-card. - PUB.: Weekly prgr. sched. for R. Ankara, R. Istanbul, R. Izmir.

TECHNICAL UNIVERSITY OF ISTANBUL (Go.)

ADDR.: Teknik Üniversite, Elektrik Fakültesi, Yüksek Frekans Tekniği Kürsüsü, İstanbul. Te.: 482250. - L.P.: Dir. Gen.: Prof. Dr. M. Santur. Dir. Tec.: Prof. Dr. A. Ataman.

HOME SERVICE: I.T.U. = İstanbul Teknik Üniversitesi.

6299 kc/s 47.62 m 1 kW: 18.15-20.00 (exc. Sat.)

7018 - 42.74 - 0.5 - : 18.15-20.00 (exc. Sat.)

FM: 99.5 mc/s 0.25 kW: 18.15-20.00 (exc. Sat.).

Frequencies are shifted slightly if interference occurs.

D. PRGR.: National (Turkish) and Classical music, Turkish music: Sun., Tues., Thurs. 18.15-18.45. - ANN.: Turkish: "Burası İstanbul Teknik Üniversitesi Radyosu". E.: "Here is the R. Station of the Technical University of Istanbul."

INT.-SIG.: "Turkish March" by Mozart. - V. by letter. R. p.

★ **VIETNAM (Republic)** ★

L.T.: GMT+8 h. - Pr.L.: Vietnamese, French, Chinese. - Po.: 12.300.000. - Revrs.: 125.000. - E.C.: 115 V., A.C., 50 c/s.

LA RADIODIFFUSION NATIONALE DU VIETNAM (Go.)
Called "VTVN" (Standing for Vô-Tuyên Vietnam).

ADDR.: 3 Duong Phan-dinh-Phung, Saigon. Te.: 277. - L.P.: Dir. Gen.: Pham-Xuan-Ninh. Dir. Tec.: Cung-Tat-Cuong. Dir. Prgr.: Buu-Nghi. Adm. Dir.: Ngo-Van-Sieng.

STATIONS: Radio VTVN, Saigon.

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
750	400	1	6165	48.66	20	9620	31.19	12
838	358	1	7245	41.41	20	9754	30.76	20
1090	275	5	7265	41.29	12	11843	25.33	50
1360	220	1						

DAILY PROGRAMMES:

Network I (Saigon A) on 1090/6165/7245/9754/11843 kc/s:

Vietnamese: 21.45-01.30, 03.00-05.30, 08.00-16.00.

Network II (Saigon B) on 838/7265 kc/s: 21.45-01.30, 03.30-06.45, 09.00-15.00.

Vietnamese: 21.45-23.15, 00.15-01.30, 03.45-05.00, 05.45-06.45, 09.00-12.15, 14.15-15.00. - English: 23.15-23.45, 05.00-05.45, 12.45-14.15. - Thai: 23.45-00.15, 12.15-12.45.

Network III (Saigon C) on 1360/9620 kc/s: 21.45-01.15, 03.30-06.45, 09.00-15.00.

Vietnamese: 21.45-23.00, 03.30-04.00, 05.00-05.30, 14.30-15.00. - French: 23.00-24.00, 04.00-05.00, 10.30-14.30. - Cambodian: 10.00-10.30, 24.00-01.15. - Chinese: 05.30-06.45, 09.00-10.00.

Network IV (Saigon D) on 750 kc/s: 09.00-13.00 in Chinese.

ANN.: Vietnamese: "Day la Dai Tieng Noi Nuoc Vietnam Cong-Hoa, phat thanh tu Saigon". French: "Ici VTVN Saigon, la voix de la République du Vietnam". English: "This VTVN. The Voice of the Republic of Vietnam broadcasting from Saigon".

INT.-SIG.:



REGIONAL STATIONS (in Vietnamese only):

R. VTVN HUE: 22.00-00.15, 03.15-05.30, 10.00-14.00 1150 kc/s 261 m 1 kW - 7205 kc/s 41.63 m 1 kW.

R. VTVN DALAT: 22.00-00.15, 03.15-05.30, 10.00-13.00 1440 kc/s 208 m 1 kW - 6090 kc/s 49.26 m 0.2 kW.

R. VTVN NHATRANG: 22.00-00.15, 03.15-05.30, 10.00-13.00 1440 kc/s 208 m 1 kW - 9720 kc/s 30.86 m 0.2 kW.

★ **VIETNAM (Peoples Democratic Republic)** ★

L.T.: GMT+7 h. - Pr.L.: Vietnamese. - Po.: 16,000,000.

THE VOICE OF VIETNAM (Go.)

ADDR.: No. 58, Quan-Su Street, Hanoi. Te.: 4134.

L.P.: Dir. Gen.: T. Lam. Dir. Foreign Prgrs.: L. Quy.

STATIONS: Hanoi

Network I (Home Service)

1010 kc/s 297.0 m - 9760 kc/s 30.74 m

6050 - 49.59 - 12055 - 24.89 -

Network II (Foreign Service)

1200 kc/s 250.0 m - 9840 kc/s 30.49 m - 11840 kc/s 25.34 m

HOME SERVICE in Vietnamese: 21.50-23.45, 03.30-05.50, 09.00-13.00. - N.: 22.30, 04.20, 11.00.

FOREIGN SERVICE: 23.00-23.30, 04.00-06.00, 09.00-15.45.

English: 04.15-04.30 (Music), 10.00-10.30, 13.30-14.00, 15.30-15.45 (Music). - French: 04.00-04.15, 04.30-05.00, 10.30-11.00. - Cambodian: 09.00-09.15, 13.00-13.30. - Cantonese: 09.45-10.00, 14.30-15.00. - Laotian: 23.00-23.30, 05.00-05.30, 05.30-06.00 (Music), 12.30-13.00. - Standard Chinese: 11.00-11.30. - Thai: 12.00-12.30 15.00-15.30.

ANN.: E.: "This is the Voice of Vietnam, Hanoi". - V. by QSL-card.

★ **YEMEN** ★

L.T.: GMT+3 h. - Pr.L.: Arabic. - Po.: 5,000,000. E.C.: 127/220 V., A.C., 50 c/s.

RADIO SANA'AH (Go.) 5985 kc/s 50.13 m 25 kW: 16.45-18.30. - ANN.: "Huna Sana, dar idha'a al-Mamlakah al-Mutawakkiliyah al-Yamaniyah li id-Duwal al-Arabiyyah al-Muttahida". (This is Sana, broadcasting station of the Mutawakkilite Yemeni Kingdom of the United Arabic States).



PACIFIC



★ **AUSTRALIA** ★

L.T.: E. Aust.: GMT+10 h., S. Aust.: GMT+9½ h., W. Aust.: GMT+8 h. - Pr.L.: English. - Po.: (Sept. 1961) 10,461,484. - Revrs.: (Sept. 1961) 2,250,000. - E.C.: 230/240 V., A.C., 50 c/s.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

Constituted under the Broadcasting and Television Act 1942-60.

The Australian National Broadcasting Sces. prgrs. are the responsibility of the A.B.C., which is responsible to the Postmaster-General. The technical sces. in Radio are provided by the Postmaster-General's Dept., and for TV by the A.B.C. Engineering Dept. -

FI.: By annual appropriation from the Commonwealth Go's budget.

ADDR.: Head Office: Australian Broadcasting Commission, 264 Pitt St., Box 487 G.P.O., Sydney. - Overseas Sces.: Radio Australia, P.O. Box 428 G.P.O., Melbourne. - Cable: ABCOM SYDNEY.

L.P.: Chairman: Dr. J. R. Darling. Vice-Chairman: E. R. Dawes, C. M. G. Gen. Mgr.: Sir Charles Moses, C.B.E. Asst. Gen. Mgr. (General): A. N. Finlay. Asst. Gen. Mgr. (Prgr.): C. Semmler. Asst. Gen. Mgr. (Adm.): T. S. Duckmant. Controller of N.: W. Hamilton. Controller of Finance: R. G. Gifford. Controller Tech. Services: V. Kenna. Dir. Publicity & Concerts: Charles Buttrose. Dir. Music: H. Cannon. Dir. Drama & Features: P. O'Loughlin. Dir. Education: C. Bull. Dir. Talks: A. Carmichael. Dir. Rural Broadc.: J. Douglass. Suprv. Sporting Broadc.: B. Kerr. Suprv. Children's H.: J. Appleton. Dir. Prgrs. (Overseas): P. W. R. Homfray.

THE NATIONAL BROADCASTING SERVICE

MEDIUM WAVE SERVICE ¹=Metropolitan. ²=Regional.

Australian Capital Territory

Call kc/s kW Name/Location H. of tr.

2CY² 850 10 Canberra 20.00(Sun.20.30)-13.30(Sat.14.00)

2CN¹ 1540 2 Canberra 20.00(Sun.20.30)-13.30(Sat.14.00)

New South Wales

2CR² 550 10 Orange 20.00(Sun.20.30)-13.30(Sat.14.00)

2ML 560 0.2 Murwillumbah 20.00(Sun.20.30)-13.30(Sat.14.00)

2FC¹ 610 50 Sydney 20.00(Sun.20.30)-13.30(Sat.14.00)

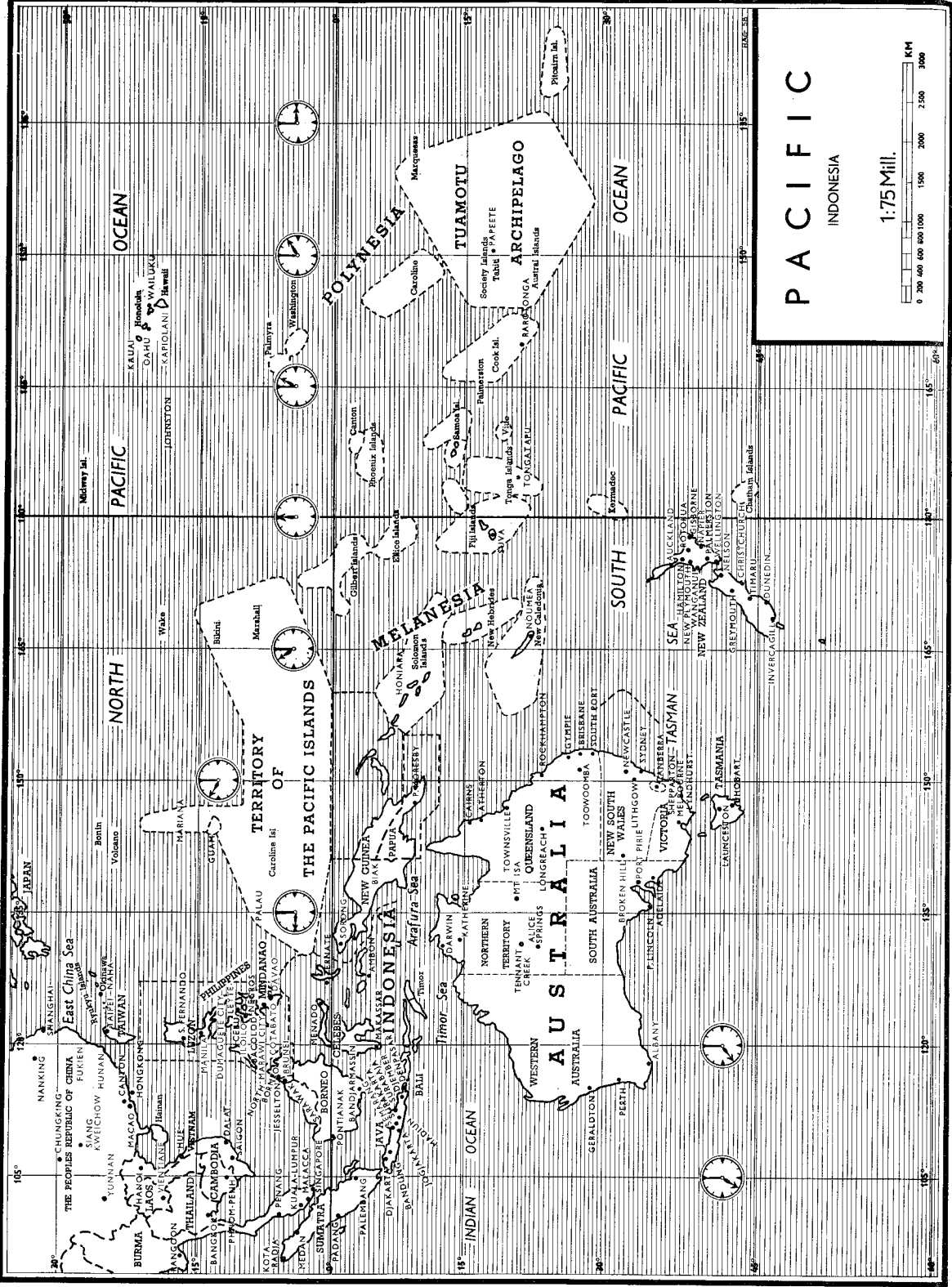
2NU² 650 10 Tamworth } 20.00(Sun.20.30)-13.30(Sat.14.00)

2CO² 670 10 Albury } 20.00(Sun.20.30)-13.30(Sat.14.00)

2KR² 680 10 Kempsey } 20.00(Sun.20.30)-13.30(Sat.14.00)

2NR² 700 50 Grafton } 20.00(Sun.20.30)-13.30(Sat.14.00)

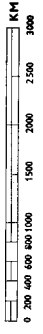
2TR² 720 0.2 Taree } 20.00(Sun.20.30)-13.30(Sat.14.00)



PACIFIC

INDONESIA

1:75 Mill.



Call	kc/s	kW	Name/Location	H. of tr.
2BL ¹	740	50	Sydney	20.00(Sun.20.30)-13.00
2NB ²	760	1	Broken Hill	20.30(Sun.21.00)-14.00(Sat.14.30)
2BA ²	810	10	Bega	20.00(Sun.20.30)-13.30(Sat.14.00)
2GL ²	820	10	Glen Innes	20.00(Sun.20.30)-13.30(Sat.14.00)
2NC ²	1230	10	Newcastle	20.00(Sun.20.30)-13.00
2NA ²	1510	10	Newcastle	20.00(Sun.20.30)-13.30(Sat.14.00)
2LG ²	1570	0.2	Lithgow	20.00(Sun.20.30)-13.30(Sat.14.00)
2WN ²	1580	2	Wollongong	
Victoria				
3WV ²	580	50	Horsham	20.00(Sun.20.30)-13.30(Sat.14.00)
3AR ¹	620	10	Melbourne	20.00(Sun.20.30)-13.30(Sat.14.00)
3LO ¹	770	10	Melbourne	20.00(Sun.20.00)-13.00
3GI ²	830	10	Sale	20.00(Sun.20.30)-13.30(Sat.14.00)
3WL ²	1570	0.2	Warrnambool	
Queensland				
4QL ²	540	10	Longreach	20.00(Sun.20.30)-13.30(Sat.14.00)
4QR ¹	590	10	Brisbane	20.00(Sun.20.30)-13.00
4AT ²	600	0.5	Atherton	20.00(Sun.20.30)-13.30(Sat.14.00)
4QN ²	630	50	Townsville	
4QA ²	720	2	Mackay	20.00(Sun.20.30)-13.30(Sat.14.00)
4QS ²	750	10	Toowoomba	
4QG ¹	790	10	Brisbane	20.00(Sun.20.30)-13.30(Sat.14.00)
4RK ²	840	10	Rockhampton	
4QB ²	910	2	Maryborough	20.00(Sun.20.30)-13.30(Sat.14.00)
4QY ²	940	2	Cairns	
4MI ²	1080	0.2	Mount Isa	20.00(Sun.20.30)-13.30(Sat.14.00)
4GM ²	1570	0.2	Gympie	
4SO ²	1590	0.2	Southport	
South Australia				
5CK ²	640	10	Port Pirie	20.30-14.00(Sat.14.30)
5CL ¹	730	50	Adelaide	20.30-14.00(Sat.14.30)
5AN ¹	890	10	Adelaide	20.30-13.30
5PA ²	1160	2	Penola	20.30(Sun.21.00)-14.00(Sat.14.30)
5LN ²	1530	0.2	Port Lincoln	
5WM ²	1580	0.05	Woomera	20.30(Sun.21.00)-14.00(Sat.14.30)
			Rocket Range	
5MG ²	1580	0.2	Mt. Gambier	20.30(Sun.21.00)-14.00(Sat.14.30)
5MV ²	1590	2	Renmark	
Western Australia				
6WA ²	560	50	Wagin	22.00(Sun.22.30)-15.30(Sat.16.00)
6NM ²	600	0.2	Northam	
6AL ²	650	0.4	Albany	22.00(Sun.22.30)-15.00
6WF ¹	690	10	Perth	
6GF ²	720	2	Kalgoorlie	22.00(Sun.22.30)-15.30(Sat.16.00)
6WN ¹	810	50	Perth	22.00(Sun.22.30)-15.30(Sat.16.00)
6GN ²	830	2	Geraldton	22.00(Sun.22.30)-15.30(Sat.16.00)
Tasmania				
7ZL ¹	600	10	Hobart	20.00(Sun.20.30)-13.30(Sat.14.00)
7QN ²	630	0.2	Queenstown	20.00(Sun.20.30)-13.30(Sat.14.00)
7NT ¹	710	10	Launceston	20.00(Sun.20.30)-13.30(Sat.14.00)
7ZR ¹	940	10	Hobart	20.00(Sun.20.30)-13.00
Northern Territory				
8DR ²	650	2	Darwin	20.30(Sun.21.00)-14.00(Sat.14.30)
8KN ²	670	0.05	Katherine	
8TC ²	680	0.05	Tennant Creek	20.30(Sun.21.00)-14.00(Sat.14.30)
8AL ²	1530	0.05	Alice Springs	
Papua/New Guinea: 9PA 1250 kc/s 0.5 kW Port Moresby: 20.00(Sun.20.30)-13.00(Sat.14.00).				

DOMESTIC SHORT WAVE SERVICE:

ADDR.: Sydney: A.B.C., Box 487, G.P.O. - Melbourne: A.B.C., Box 1686, G.P.O. - Brisbane: A.B.C., Box 293E, G.P.O. - Perth: A.B.C., Box 190D, G.P.O. - Port Moresby: A.B.C., Port Moresby.

STATIONS: Sydney: VLI (2 kW). - Melbourne: VLH (10 kW) & VLR (5 kW). - Brisbane: VLQ (10 kW) & VLM (10 kW). - Perth: VLW (2 kW) & VLX (10 kW). - Port Moresby: VLT (2 kW).

Call	kc/s	m	h. of tr.
VLH	6090	49.26	20.00(Sun.20.30)-13.30(Sat.14.00)
VLH11	11880	25.25	20.00(Sun.20.30)-23.15(Sat.23.45)
VLH15	15230	19.70	23.30(Sat.23.00)-08.15
VLH9	9680	30.99	08.30-13.30(Sat.14.00)
VLR6	6150	48.78	20.00(Sun.20.30)-22.30, 08.30-13.00
VLR9	9680	30.99	22.45-08.30
VLQ9	9660	31.06	20.00(Sun.20.30)-13.30(Sat.14.00)
VLM4	4920	60.98	20.00(Sun.20.30)-13.30(Sat.14.00)
VLW6	6140	48.86	22.00(Sun.22.30)-00.00, 10.30-15.30(Sat.16.00)
VLW9	9610	31.22	00.15-10.15
VLX9	9610	31.22	as VLW6
VLX15	15425	19.45	00.15-10.15
VLT6	6130	48.94	20.00(Sun.20.30)-22.00, 07.00-13.30(Sat.14.00)
VLT9	9520	31.51	22.15-06.45

N.: 20.00(not Sun.), 20.45, 21.15 (Sun. 21.30), 21.45(Sun. 22.45), 00.00 (not Sat. or Sun.), 02.30, 03.30, 06.00 (not Sun.), 09.00, 11.00, 12.30, 13.00 (BBC & Aust.). - NOTE: Although times are in GMT, calendar days apply to the Ea. States of Aust. only.

ANN.: "This is the A.B.C....". - INT.-SIG.: Three Gongs (C.F.A.). - PUB.: "TV News-Times", R. Australia Prgr. Guide, Schools Broadcasts booklets.

OVERSEAS SERVICE - R. AUSTRALIA

ADDR.: Radio Australia, P.O. Box 428G, G.P.O., Melbourne. - Cable: Newscast. Te.: MU 6911.

TRANSMITTERS: 4 x 100 kW, 2 x 50 kW, and a 10 kW experimental 11 metre transmitter at Shepparton; a 10 kW unit at Lyndhurst - The high power Shepparton transmitters and the Lyndhurst outlet are capable of operating on any frequency allocated for international broadcasting in the 13, 16, 19, 25, 31, 41 and 49 m.b.

SERVICES: I: So., So. East, So. We. Asia. - II: Ea. Asia, No. Pacific Islands. - III: So. Pacific Islands. - IV: Mid-Pacific Islands. - V: British Isles & Europe. - VI: No. America (Ea.). - VII: No. America (We.). - VIII: Africa.

Transmissions 29/10 61-24/3 62

ENGLISH	kc/s		kc/s
I 22.14-00.15	25735, 21540, 15210	IV 02.29-07.30**21600	
	25735, 21540, 17840	07.44-12.00	7190
00.15-06.00	25735, 21540, 15220	20.00-22.00	15315
06.00-07.30	25735, 15220	V 08.14-09.15	11710, 9570
07.30-09.30	25735, 21540, 15220	06.00-07.30 ¹⁾	11710, 9570
09.30-09.58	25735, 15220	VI 12.14-13.15	11710
09.58-13.00	25735, 15220, 9570	VII 15.14-16.15	11710
	11740, 9570, 7220	VIII 04.29-05.45	21680
13.00-15.00	11890, 9570, 7220	INDONESIAN: kc/s	
15.00-17.30	11890, 9570, 7220	I 06.00-07.30	21540, 17840
02.29-07.30*	21600	09.29-11.00	11740, 7220
II 07.44-10.00	11810	22.14-23.15	17840, 15330
11.00-12.00	11810, 9580	FRENCH: kc/s	
12.00-14.00	9580	I 23.15-00.15	17840, 15330
20.59-23.00	15240	III 23.15-00.15	21680
III 06.00-08.14	11710	IV 00.30-01.30	17715, 15180
08.14-09.15	11710, 9570	MANDARIN: kc/s	
20.00-22.00	11840	I 11.00-13.00	11740, 7220
		THAI: kc/s	
		I 13.29-14.30	11760, 9540
		JAPANESE: kc/s	
		II 10.00-11.00	11810, 9580

* Sat. only. ** Sun. to Fri. ¹⁾ 25/3 62-27/10 62.

Frequencies are subject to alteration. Details of alterations are given in the transmissions concerned for three days before the effective date and in "Transmission Parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:

N.: 00.15, 01.30, 02.30, 04.00, 05.00, 05.15, 06.00, 07.00, 08.45 (29/10-24/3), 09.00, 10.00 Dictation, 11.00, 12.00, 12.45, 13.00, 14.00, 15.15, 16.15, 17.15, 20.00, 21.00, 21.45, 22.45, 23.30. - MAILBAGS: Pacific/Asia/Africa Edition: Sat. 21.15. Sun.: 00.45, 04.45, 11.30, 16.45. British Isles/European Edition: Sun. 06.45¹⁾, 08.30 (29/10-24/3). No. American Edition: Sun. 12.30, 15.30.

DX PROGRAMME: Sat. 22.00 to II; Sun. 05.30 to VIII; Sun. 09.00 to V (29/10-24/3), 07.15 (25/3-27/10); Sun. 13.00 to VI; 16.00 to I, V and VII. - REQUEST PRGR.: Listeners Choice: Sun. 11.15; Sat. 14.15; Sun.-Fri. 14.30. Music by Request: Mo. to Sat. 23.40. - SPORT: Results Mo. to Sat. 08.30. Descriptions and results of major sports events in Australia Sat. 02.29-07.30 on 21600 kc/s to I. - STOCK



Editor of R. Australia's DX-Prgr. Graham D. Hutehins

Australia

EXCHANGE: Fri. 08.45, 13.06, 15.00. -- **NATIONAL MUSIC:** Music by Australian artists and composers is broadcast regularly in all transmissions. -- **PRGR. REVIEWS:** A preview is given at the start of each daily tr. and three min. before the close of tr. to the resp. areas.

FIXED PROGRAMMES in other languages:

FRENCH: N.: 23.30, 00.45. -- N., Commentary: Tues.-Sat. 23.42, 00.57. -- Mailbag: Sun.: 00.00, 01.00.

INDONESIAN: N.: 09.40, 10.30, 23.45. -- Mailbag: Sun.: 06.30, 10.00. -- "English Lessons for Indonesians": Tues., Thurs.: 06.30, 10.00, 13.30. Sat.: 02.00, 10.00.

JAPANESE: N.: 10.30. -- Mailbag: Sun. 10.10. -- DX-Session: Sun. 10.45. -- Commentary: Mo.-Fri. 10.42.

MANDARIN: N.: 11.15, 12.45. -- N., Commentary: Mo.-Fri. 12.27. -- Mailbag: Sun. 12.00.

THAI: N.: 14.00. -- N., Commentary: Mo.-Fri. 14.15. -- Mailbag: Sun. 13.45.

ANN.: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." -- "You are tuned to R. Australia, the Overseas Service of the A.B.C." Freq's and wavelengths are given at frequent intervals.

TUNING AND INT.-SIG.: Musical Box playing "Waltzing Matilda" for five min. preceding prgr.s to all areas: Prgr.s commence with chimes of Elizabeth Street Post Office Clock and the laugh of the Australian bird, the Kookaburra.

V.: Listeners reports are welcomed and correct reports are confirmed by verification card.

PUB.: A prgr. booklet is available free upon application. Issued twice yearly covering April-Oct. and Nov.-March.

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS

Associated in a body called: The Australian Federation of Commercial Broadcasting Stations: Addr.: 47, York Street, Sydney. -- L.P.: Federal Dir.: M. Baker. Also Promotion and Research Organization "Australian Radio Advertising Bureau", 47, York Str., Sydney. -- L.P.: Dir.: B. J. Dargaville. -- The Australian Broadcasting Control Board is a Go. Authority responsible for the planning of the broadcasting sec.'s ensuring that technical equipment and prgr. sec.'s are of adequate standards and determining power, frequency and periods of operation of stations.

Addr.: 497 Collins Str., Melbourne, C. 1. Cable: Conboard, Melbourne. -- L.P.: Chairman: R. G. Osborne. Members: R. B. Mair; R. A. Yeo; R. M. White (Part-time); Sec.: J. O'Kelley. Dir. Tec.: D. McDonald. Dir. Prgr.: D. A. Jose.

2CH is controlled by the New South Wales Council of Churches; 2SM by the Roman Catholic Church; 5KA and 5AU by the Methodist Church.

Abbreviations: Amalg.=Amalgamated. Ass.=Associated. Me.=Melbourne. B.Casters=Broadcasters. Transc.=Transcontinental.

NEW SOUTH WALES: Call letter: 2 ---.

Call	kc/s kW	D. Prgr.	Stations
BH	660 0.2	20.00-13.00	R. Silver City, Broken Hill
¹ KA	780 2	20.00-12.35	Voice of the Mountains
GB	870 5	19.30-13.15	Broadc. St. 2GB, Sydney
LM	900 2/1	20.00-12.30	Richmond River Broadc., Lismore
XL	920 2/1	20.00-13.00	Cooma B. Casters
UE	950 5	24 hours	R. 2UE, Sydney
KM	980 2/1	20.00-12.30	R. Kempsey
GZ	990 2	20.00-13.30	Country Broadc. Sec., Orange
KY	1020 5	19.30-14.00	2KY Broadc. St., Sydney
CA	1050 2	20.00-13.00	Canberra B. Casters
RG	1070 2/1	20.30-12.30	2RG B. Casters, Griffith
MO	1080 1	20.00-12.30	2MO Gunnedah
² AW	1110 5	24 hours	Commonwealth Broadc. Corp., Sydney
UD	1130 2/1	20.00-12.30	New England B. Casters, Armidale
HD	1140 2	19.30-14.00	Airsales Broadc. Co., Newcastle
WG	1150 2	20.00-13.00	Riverina Broadc. Co., Wagga
CH	1170 5	19.30-14.00	Amalg. Wireless, Sydney
NZ	1190 2	19.30-13.00	Northern B. Casters, Inverell
GF	1210 2/1	20.00-13.00	Grafton Broadc. Co.
DU	1250 2	19.30-13.35	Western B. Casters, Dubbo
³ SM	1270 5	19.30-13.00	Broadc. St. 2SM, Sydney
TM	1300 2	20.00-13.30	Tamworth R. Development Co.
⁴ LF	1340 2	20.00-13.00	Young B. Casters, Young
NX	1360 2	19.30-13.00	Hunter B. Casters, Newcastle
LT	1370 0.5	20.00-12.30	Lithgow B. Casters
GN	1380 2	20.00-13.00	Goulburn Broadc. Co.
⁵ PK	1400 2	20.00-13.00	Parkes Broadc. Co.
⁶ KO	1410 2	24 hours	R. 2KO, Newcastle
WL	1430 2	19.30-13.30	Wollongong Broadc.
⁷ MW	1440 2/1	20.00-13.00	Tweed R. & Broadc. Co.
⁸ MG	1450 1	20.00-13.00	Mudgee Broadc. Co.
NM	1460 0.5	19.30-13.00	as 2NX -- 1360 kc/s
BE	1480 1	21.00-12.00	Station 2BE, Bega

Call	kc/s kW	D. Prgr.	Stations
AY	1490 2	20.00-13.30	Amalg. Wireless, Albury
BS	1500 2	20.00-13.30	Bathurst B. Casters
⁹ QN	1520 2	20.30-12.30	Southern Riverina B. Casters, Deniliquin
¹⁰ YM	1530 2/0.5	20.00-13.00	Moree Broadc. & Development Co.
RE	1560 2/0.5	20.00-12.30	Manning Valley Broadc., Taree
VICTORIA: Call letter: 3 ---			
UL	880 2/1	19.30-13.30	Ass. Broadc. Sec., Warragul
UZ	930 5	19.30-14.00	Nilsen's Broadc. Sec., Melbourne
BO	960 2/1	19.30-14.00	Amalg. Wireless, Bendigo
HA	1000 2	20.00-13.30	We. Province R., Hamilton
¹¹ DB	1030 5	19.30-15.00	Herald Broadc. St., Melbourne
LK	1090 2	19.30-13.30	
¹² CS	1130 2/1	20.00-12.30	Colac Broadc. Co.
KZ	1180 5	20.00-13.30	3KZ Broadc. Co., Melbourne
YB	1210 2/1	20.00-13.30	Ass. Broadc. Sec., Warrnambool
TR	1240 2	19.00-14.00	Latrobe Valley & Gippsland B. Casters
SR	1260 2	19.30-13.30	Ass. Broadc. Sec., Shepparton
¹³ AW	1280 5	18.30-15.00	R. Melbourne, Melbourne
¹⁴ BA	1320 2/1	20.00-14.00	Ballarat B. Casters
¹⁵ SH	1330 2	20.00-13.00	Victorian Broadc. Network
GL	1350 2/1	19.30-13.00	Geelong Broadcasters
XY	1420 5	24 hours	Effite B. Casters, Melbourne
CV	1440 2/1	20.00-13.00	C. Victoria B. Casters, Maryborough
MA	1470 2	20.30-12.30	Sunraysia B. Casters, Mildura
AK	1500 2	20.00-08.00	General Television Corporation
NE	1600 2/1	19.30-14.00	Wangaratta Broadc. Co.
QUEENSLAND: Call letter: 4 ---			
KQ	690 2/1	24 hours	Broadc. St. 4KQ, Brisbane
TO	780 2/1	19.30-13.30	Amalg. Wireless, Townsville
¹⁶ GR	860 2	19.30-13.00	Commonwealth Broadc. Co.
WK	880 2	20.00-12.30	Warwick Broadc. Co.
VL	920 2/1	20.30-12.30	Charleville Broadc. Co.
AY	960 2/1	19.00-13.30	Ayr B. Casters, Ayr
¹⁸ RO	1000 2	19.30-13.00	Commonwealth Broadc. Co.
CA	1010 2/1	20.00-13.00	Amalg. Wireless, Cairns
IP	1010 1	20.00-12.30	Ipswich Broadc. Co.
¹⁹ SB	1060 2		Commonwealth Broadc. Co.
LG	1100 2	20.00-04.00	C. Queensland Broadc. Corp., Longreach
¹⁶ BC	1120 2	24 hours	Commonwealth Broadc. Co., Brisbane
¹⁷ MB	1160 2	19.30-13.00	Commonwealth Broadc. Co.
AK	1220 2}		
BK	1290 2}	19.00-13.00	Brisbane B. Casters
BU	1330 2	20.00-12.30	Bundaberg B. Casters
¹⁷ GY	1350 2/0.5	20.00-12.15	Gympie Broadc. Co.
LM	1370 0.5	20.30-00.40	No. Queensland Broadc. Corp., Mt. Isa
¹⁸ MK	1380 2	19.30-12.30	Mackay Broadc. Sec.
¹⁹ BH	1390 2	19.00-13.30	B. Casters (Aust.), Brisbane
ZR	1480 2/1	20.30-12.30	Maranoa Broadc. Co., Roma
SOUTH AUSTRALIA: Call letter: 5 ---			
RM	800 2	20.15-13.30	River Murray B. Casters, Renmark
DN	970 2	20.00-13.45	Hume B. Casters, Adelaide
²⁰ PI	1040 2	20.00-13.45	Midlands Broadc. Sec.'s, Crystal Brook
KA	1200 2	24 hours	5KA Broadc. Co., Adelaide
²¹ AD	1310 2	20.00-14.30	Advertiser Newspaper Ltd., Adelaide
²² SE	1370 0.5	20.00-13.45	South Eastern Broadc. Co., Mt. Gambier
AU	1450 2	20.15-13.30	Port Augusta Broadc. Co., Port Augusta
²³ MU	1460 0.5	20.00-13.45	Murray Broadc. Co.
WESTERN AUSTRALIA: Call letter: 6 ---			
VA	780 2	22.30-06.00	Albany Broadcasters
		08.00-14.00	
KG	860 2	22.30-06.00	Whitfores Broadc.
		08.00-14.00	Network, Perth
PR	880 2	21.30-15.00	Nicholsons Broadc. Sec., Perth
BY	900 2	22.00-14.30	W.A.B. Casters, Perth
NA	920 2	22.00-17.00	Westland Broadc. Co.
TZ	960 2	22.00-15.00	as 6PR
AM	980 2	22.00-15.00	as 6KG
PM	1000 2	22.00-16.00	as 6KG
GE	1010 2	22.30-05.30, 09.00-14.30	as 6KG
WB	1070 2	22.00-06.00, 09.00-14.30	as 6BY
IX	1080 2	21.45-16.00	as 6BY
MD	1100 2	22.00-06.00, 09.00-14.30	as 6BY
CI	1130 2	22.00-06.30, 10.00-15.00	as 6PR
KY	1210 2	21.30-18.00	as 6NA
TASMANIA: Call letter: 7 ---			
SD	540 0.5	21.00-23.00	North East Tasmania R.
		06.30-12.15	B. Casters, Scottsdale
BU	560 0.5	20.30-12.30	Burnie Broadc. Sec.
QT	720 0.5	21.00-03.00	West Coast
		06.00-12.30	B. Casters, Queenstown
HO	860 2	19.30-13.30	Comm. B. Casters, Hobart

Call kc/s kW D. Prgr. Stations
 AD 900 0.5 21.00-13.00 N. Tasmania B. Casters, Devonport
 EX 1010 2 20.00-13.00 TEX Pty., Launceston
 HT 1080 2 19.30-13.30 Metropolitan B. Casters, Hobart
 LA 1100 2 20.00-13.00 Findlay & Wills Broadcasters

NORTHERN TERRITORY Call letter: 8 ---
 DN 1240 2 21.00-13.00 Darwin B. Casters Pty. Ltd.
 1) Box 32, Katoomba, - L.P.: Gen. Mgr.: A. C. Paddison. St. Mgr.: J. Emmett. Dir. Tec.: M. Toakley. - V. by letter.
 2) G.P.O. Box 4241, Sydney. - L.P.: Gen. Mgr.: L. C. Hynes. Dir. Tec.: T. A. E. McNeill. - V. by QSL-card. Rp.
 3) 257 Clarence St., Sydney. - L.P.: Gen. Mgr.: W. H. Stephenson. Dir. Tec.: D. Goudie. - V. by QSL-card.
 4) Lowell St., Young. - L.P.: Gen. Mgr.: W. P. Marsden. Dir. Tec.: E. Easterley. - V. by QSL-card.
 5) P.O. Box 112, Parkes. - L.P.: Gen. Mgr.: N. T. Spicer. Dir. Tec.: G. F. Carter. - V. by letter.
 6) 110 Hunter Str., Newcastle. - L.P.: St. Mgr.: G. M. Hood. Dir. Tec.: M. Spitzkowsky.
 7) P.O. Box 53, Murwillumbah. - L.P.: Gen. Mgr.: W. A. G. Diamond. Dir. Tec.: N. D. Carpenter. - V. by QSL-card. Rp. Prgr. schedule on request.
 8) P.O. Box 14, Mudgee. - L.P.: Gen. Mgr.: R. B. Camplin. Dir. Tec.: J. M. Sullivan. - V. by letter. Rp. Re. in E or F.
 9) 28 George Str., Deniliquin. - L.P.: St. Mgr.: P. N. Charley. Eng. in-charge: J. W. Herriman. - V. by QSL-card.
 10) Ballo Str., Moree. - L.P.: Man. Dir.: H. Sullivan. Dir. Tec.: G. Woodward. - V. by letter.
 11) 36 Flinders Str., Melbourne, C.1. - L.P.: St. Mgr.: C. C. Crawford. Dir. Tec.: E. M. Hooper. - V. by QSL-card or letter.
 12) 241 Murray Str., Colac. - L.P.: Gen. Mgr.: C. S. Faulkner. Chief Eng.: C. A. Cullinan. - D. PRGR: German: Sun., Mo., Tues.: 12.15-12.30. - V. by QSL-card. Rp.
 13) 382 Latrobe Str., Melbourne. - L.P.: Gen. Mgr.: M. Wright. Dir. Tec.: J. W. Ryan. - V. by letter.
 14) 56 Lydiard Str., Ballarat. - L.P.: Man. Dir.: J. H. Davey, O.B.E. Dir. Tec.: E. K. Ridgway. - V. by QSL-card.
 15) Box 330, Swan Hill. - L.P.: Gen. Mgr.: N. Dixon. Dir. Tec.: W. Murden. - V. by QSL-card.
 16) Cnr. Wharf & Adelaide Streets, Brisbane. - L.P.: Man. Dir.: A. F. Albert. Dir. Tec.: N. J. Bishop. - V. by letter.
 17) 98 Mary Str., Gympie. - L.P.: Man. Dir.: S. L. Fittell. Technician-in-charge: J. Walker. - V. by letter. Rp.
 18) P.O. Box 183, Mackay. - L.P.: Gen. Mgr.: M. E. Low. - V. by QSL-card and letter.
 19) 43 Adelaide Str., Brisbane. - L.P.: Mgr.: C. R. Carson. Dir. Tec.: A. R. Judge. - V. by QSL-card.
 20) The Advertiser Broadc. Network, King William Str., Advertiser Bldg., Adelaide. - L.P.: Mgr.: J. M. Fowler. Dir. Tec.: J. L. Schaumlöffel. - V. by letter.
 21) Quadrant, Launceston. - L.P.: Gen. Mgr.: R. E. Ward. Dir. Tec.: R. B. McLean. - V. by QSL-card.

★ CHATHAM ISLANDS (N.Z. Territory) ★

L.T.: GMT+12½ h. - Pr.L.: English. - Po.: 700.
CHATHAM ISLANDS BROADCASTING SERVICE, Waitangi.
 HOME SCE.: ZLC 2196 kc/s 136.6 m 0.05 kW.
 Station ZLC does not operate a broadcasting service. It is owned by the New Zealand Post Office; its primary function is the transmitting of comm. telegrams to the smaller Islands in the group. Items of a purely local nature only are also broadcast.

★ COOK ISLANDS (N.Z. Territory) ★

L.T.: GMT+10½ h. - Pr.L.: English, Cook Isl. Maori. - Po.: 14,000. Rvrs.: 275. - E.C.: 230 V., A.C., 60 c/s.
RADIO RAROTONGA (Go.)
 ADDR.: Social Development Dept. Radio Service, Rarotonga. Te.: 24. - L.P.: Dir. Prgr.: P. F. Henderson. Dir. Tec.: W. Scarborough.
 HOME SCE.: ZK1ZA 5050 kc/s 59.41 m 0.35 kW: Thurs. 04.30-06.30. N.: 04.50 (English), 05.50 (Maori).
 ANN.: "This is ZK1ZA Radio Rarotonga" - INT.-SIG.: Cook Islands Drum Beats. - V. by QSL-card. - F.P.L.: M.w. station.

★ FIJI (British) ★

L.T.: GMT+12 h. - Pr.L.: Fijian, Hindustani. - Po.: 401,000. - Rvrs.: 30,000. - E.C.: 240/415 V., A.C., 50 c/s.
FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm., 50% cultural). - FL: By license payments and adv. -
 ADDR.: Broadcasting House, P.O. Box 334, Suva. Cable: Broadcom. Te.: 2621. - L.P.: Chairman: J. M. Hedstrom, I.J.R. Mgr.: J. S. W. Stannage. Dir. Prgr.: G. H. King. Dir. Tec.: T. C. Agar.
 HOME SCE.: W. 18.00-10.30 (Sat. 11.00). Sun. 19.00-10.30.

VRH2 Suva 840 kc/s 357 m 0.4 kW - VRH3 Lautoka 890 kc/s 337.1 m 2.5 kW - VRH4 Suva 930 kc/s 322 m 2 kW - VRH4 Suva 3980 kc/s 75.38 m 0.5 kW - VRH5 5980 kc/s 50.17 m 0.25 kW - VRH6 6005 kc/s 49.96 m 0.25 kW.
 Simultaneously tr. in English, Fijian, Hindustani (Hrs. per week: English 102, Fijian 20, Hindustani 33½). - English: N.: D.: 18.45*, 19.00 (BBC), 19.45, 20.00 (BBC), 21.15 (Sun. BBC), 24.00 (Sun. ABC). 01.15 (NZBS), 01.30*, 07.00 (BBC)*. - Wrp.: After N.* 00.30, 09.15 (Sun. 09.00). - Fijian: Fijian Party Time: 3rd Sat. of the month at 09.45-11.00 on 840/3980 kc/s.
 ANN.: "This is the Fiji Broadc. Commission". - INT.-SIG.: Beat of Fijian Lali (Log Drum). - V. by OSL-card, but not sought. - F.P.L.: Two 10 kW s.w.-tr.s in March 1962 on 3980 and 6005 kc/s.

**★ GILBERT and ELLICE ISLANDS ★
 (British Colony)**

L.T.: GMT+12 h. - Pr.L.: English, Gilbertese, Ellice. - Po.: 40,000. - Rvrs.: 202. - E.C.: 240 V., A.C., DC (Batteries).
GILBERT and ELLICE ISLANDS BROADCASTING SERVICE (Go.)
 ADDR.: Information Office, Tarawa. - L.P.: Information Officer, Chief Wireless Officer.
 HOME SCE.: Radio Tarawa: Sun. 04.00-05.00*, Fri. 07.30-10.30**. VTW 844 kc/s 355 m 0.05 kW - VTW-2 6050 kc/s 49.59 m 2 kW.
 * Gilbertese & Ellice. ** English.
 ANN.: E.: "Good evening (afternoon) listeners, this is the Voice of Tarawa". - V. by letter.

★ HAWAII (U.S. State) ★

L.T.: GMT+10 h. - Pr.L.: English, Japanese, Filipino, Chinese, Okinawan. - Po.: 632,772. - Rvrs.: 460,000. - E.C.: 120/208/240/480 V., A.C., 60 c/s.
VOICE OF AMERICA RADIO STATION IN HAWAII
 ADDR.: Voice of America, Washington 25, D.C., USA.
 STATIONS: Short Wave: Honolulu 100 kW: 09.00-16.30. 6075 kc/s 49.38 m - 9650 kc/s 31.09 m
 D. PRGR.:
 09.00-09.30 English 10.30-11.00 Ukrainian 11.30-12.00 Mandarin
 09.30-10.00 Russian 11.00-11.30 English 12.00-16.30 English
 10.00-10.30 English
 ANN.: "This is the Voice of America Relay St. at Honolulu".
 INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card.
PRIVATE STATIONS (Comm.)
 Abbrev.: E=English, J=Japanese, F=Filipino, C=Chinese, O=Okinawan, S=Samoan, AI=All Island.

Call	kc/s kW	Network	Call	kc/s kW	Network
1) KMVI 550 1	NBC, AI		2) KHCB 970 1	CBS	
2) KGMB 590 5	CBS		10) KOOD 990 5	Indep.	
3) KORL 650 10	Indep.		11) KHVH 1040 5	Kaiser	
4) KULA 690 10	Indep.		12) KIPA 1110 1	AI	
5) KGU 760 10	NBC		13) KOHO 1170 1	Indep.	
6) KIKI 830 0.25	Indep.		14) KLEI 1240 0.25	Indep.	
7) KIMO 850 1	Kaiser		15) KNDI 1270 5	Indep.	
8) KAIM 870 1	Indep.		16) KPOI 1380 5	Indep.	
9) KAHU 920 1	Indep.		17) KTOH 1490 0.25	NBC	

1) Maui Publishing Co., P.O. Box 374, Wailuku, Maui - L.P.: St. Mgr.: R. E. Mawson - D. Prgr.: 15.00-09.00 in E, J, F.
 2) Hawaiian Broadc. System, P.O. Box 581, Honolulu 14 - L.P.: Gen. Mgr.: M. F. Warren - D. Prgr.: KGMB in E: 15.30-10.00. KHCB: 15.30-10.00 in E, J.
 3) R. Hawaii, Inc., 575 Kamoku St., Honolulu - L.P.: Gen. Mgr.: H. Davis - D. Prgr.: 24 h. in E, F.
 4) KULA Broadc. Co., P.O. Box 1479, Honolulu L.P.: Gen. Mgr.: C. Stuart III - D. Prgr.: 24 h. in E.
 5) Advertiser Publishing Co., P.O. Box 3110, Honolulu 2 - L.P.: Gen. Mgr.: W. O. Paine - D. Prgr.: 14.00-11.00 in E, J, F.
 6) Kiki Ltd., 331 Kamani St., Honolulu 13 - L.P.: Gen. Mgr.: A. J. Rossi - D. Prgr.: 24 h. in E, C, F, J, O.
 7) Island Broadc. Co., P.O. Box 1497, Hilo - L.P.: Gen. Mgr.: J. E. Jaeger - D. Prgr.: 15.00-10.00 in E, J, F.
 8) Christian Broadc. Assoc., P.O. Box 375, Honolulu - L.P.: Gen. Mgr.: C. Kerr - D. Prgr.: 14.30-09.30 in E, F, C, J.
 9) Rural Broadc. Co., P.O. Box 1007, Waipahu, Oahu - L.P.: Gen. Mgr.: H. E. Chu - D. Prgr.: 15.00-09.30 in E, C, F, J, S.
 10) Ala Moana Broadc. Co., 1450 Ala Moana Blvd., Honolulu 14 - L.P.: Gen. Mgr.: P. W. Carle - D. Prgr.: 15.30-08.00 in E, J.
 11) Kaiser Hawaiian Village Radio, Inc., 1290 Ala Moana Blvd., Honolulu 14 - L.P.: Gen. Mgr.: B. Coney - D. Prgr.: 24 h. in E - V. by letter. Rp.
 12) Big Island Broadc. Co., P.O. Box 1602, Hilo - L.P.: Gen. Mgr.: R. W. Jaderstrom - D. Prgr.: 15.00-10.00 in E, J, F.

HAWAII – NEW ZEALAND

13) **Cosmopolitan Broadc. Co.**, 1140 A, 12th Ave., Honolulu 16 - D. Prgr.: 15.00-09.00 in E, J, F.
 14) **Oahu Broadc. Co.**, Kailua Shopping Center, Kailua, Oahu - L.P.: Gen. Mgr.: J. Irvin - D. Prgr.: 15.30-10.00 in E.
 15) **R. St. KNDI**, P.O. Box 1516, Honolulu - L.P.: Gen. Mgr.: J. T. Ownby - D. Prgr.: 16.00-10.00 in E.
 16) **KPOI Broadc. Co.**, 1701 Ala Wai Blvd., Honolulu 15 - L.P.: Gen. Mgr.: F. Hollinger - D. Prgr.: 24 h. in E.
 17) **Garden Island Publishing Co.**, Box 1748, Lihue, Kauai - L.P.: Gen. Mgr.: C. J. Fern - D. Prgr.: 15.30-20.30 in E, J, F.

★ MARIANAS ISLANDS (U.S. Territory) ★

L.T.: GMT+10 h. - Pr.L.: English, Chamorro, Philippine dialects. - Po.: 100.000. - Rcvrs.: 62.000. - E.C.: 110/220 V., A.C., 60 c/s.
RADIO GUAM (Pr. Comm.).
 F.I.: By adv. - ADDR.: P.O. Box 368, Agaña, Guam. Cable: Kuam. Te.: 7961. - L.P.: Pres. & Gen. Mgr.: H. M. Encl. Resident Mgr.: R. A. Jordan.
HOME SCE.: KUAM 610 kc/s 1 kW.
 English: 20.00(Sun. 21.00)-14.00(Sat. 15.00). - N.: Every h. on the h. ANN.: "Kuam Agaña, Guam". - INT.-SIG.: Voice & Jingle Form (Orchestra & Voices). - V. by letter. - F.P.L.: Increase power. - Prgr.: schedules free on request. Write to: Resident Mgr., P.O. Box 368, Agaña, Guam, M.I. (Pacific Ocean).

★ MARSHALL ISLANDS (U.S. Trust Terr.) ★

L.T.: GMT+12 h. - L.: English. - Po.: 10.000.
STATION WSOZ (operated by the Majuri Trust Territory).
 1500 kc/s 200 m 0.2 kW: D. approx. 02.00-04.00.
 D. Prgrs. in Marshallese: Boat arrivals, departures, itineraries, and local news, together with educational items.
ARMED FORCES RADIO & TV SCE. (Eniwetok and Kwajalein): see USA.

★ NEW CALEDONIA (French) ★

L.T.: GMT+11 h. - Pr.L.: French. - Po.: 70.000. - Rcvrs.: 6.000. - E.C.: 110/120 V., A.C., 50 c/s.
RADIO NOUMEA (Go. - R.diff. Télévision Française).
 ADDR.: B.P. 327, Noumea, Cable: Radio Noumea. Te.: 2856. L.P.: Dr. Le Leizour. Adm.: Mlle M. Charbonneaux. Dir. Tec.: Th. Siret.
HOME SERVICE:
 1400 kc/s 214 m 1 kW } W.: 19.00-20.00, 00.00-02.00, 07.00-10.30.
 3355 - 89.45 - 4 - } Sun.: 21.00-02.00, 07.00-10.30.
 6035 - 49.71 - 4 - }
 N.: 19.30, 01.00, 08.00. - Folklore Music: Thurs. 07.15, Fri. 07.00. - Wrp.: D.: 01.00, 01.55, 08.00, 09.00. - ANN.: "Ici Noumea, Radio-diffusion Télévision Française". - INT.-SIG.: Call of the cagou bird. - V. by QSL-card. - PUB.: Weekly Prgr.schedule.

★ NEW GUINEA (Austral Territory) ★

L.T.: GMT+10 h. - Po.: 487.000. - E.C.: 240/415 V., A.C., 50 c/s.
RADIO RABAU (Go.).
 ADDR.: Administration Broadcasting Station, P. O. Box 71, Rabaul, Territory of Papua. - L.P.: St. Mgr.: R. W. Wilson. - **HOME SERVICE** in English: VL9BR 4840 kc/s 61.98 m 0.25 kW: Mo.-Fri. 07.55-11.00, Sat. & Sun. 08.40-11.00. N.: 08.30. - V. by letter.

★ NEW GUINEA (Netherlands) ★

L.T.: GMT+9½ h. - Pr.L.: Dutch, Malayan. - Po.: 734.000. - Rcvrs.: 10.000.
RADIO OMROEP NIEUW GUINEA (Go.).
 ADDR.: R.O.N.G., P.O. Box 505, Biak. Te.: 90.
 L.P.: Gen. Mgr.: Jac. C. M. Grijpink. Dir. Prgr. (Malayan): J. P. C. Oosterhof. Dir. Adm.: R. W. Bouw. St. Dir. (Sorong): G. J. van Velzen. Dir. Tec.: W. de Vries.
STATIONS: kc/s m kW kc/s m kW
 Biak 6070 49.42 5 Sorong 3395 88.37 0.5
 Biak 9745 30.78 5 Biak 7190 41.72 1

HOME SCE. in Dutch & Malayan:
 Dutch/Malayan: 21.00-22.00 (Mo.-Fri.) on 6070 kc/s, 04.45-05.30 (Mo.-Fri.) on 9745 kc/s. - Dutch: 00.30-01.30 (Mo.-Fri.), 03.00-05.00(Sat.), 23.30(Sat.)-04.30(Sun.) on 9745 kc/s; 10.30-13.30 on 6070 kc/s. - Malayan: 03.00-05.00(Sat.), 23.30(Sat.)-04.30(Sun.) on 7190 kc/s, 09.00-10.30 on 6070 kc/s. - Local st. Sorong: Malayan: D. 09.00-12.30 on *3395 kc/s. - Local st. Biak: Malayan: D. 09.00-12.30 on *7190 kc/s.
 Music on request: Dutch. Sat. 11.00-11.45; Malayan: Mo., Tues., Wed., Fri. 09.30-10.00. * Experimental broadcasts.
 ANN.: D.: "Hier is Biak, Radio Omroep Nieuw-Guinea". E.: "This is R. Biak, the Netherlands New Guinea Broadcasting Service". Malayan: "Disini RONG, R. Nieuw Guinea de Biak".
 INT.-SIG.: "Wij leven vrij, wij leven blij!"



V. by QSL-card. Rp.-F.PL.: Local st.s at Hollandia, Merauke, Manokwori, Fak Fak.

★ NEW HEBRIDES ★ (Anglo-French Condominium)

L.T.: GMT+11 h. - Pr.L.: English, French, Pidgin-English. - Po.: 56.000. - Rcvrs.: 250. - E.C.: 220 V., A.C., 50 c/s.
RADIO PORT VILA (Go.).
 ADDR.: Anglo-French Condominium Administration, Port Vila, New Hebrides, South Pacific. - L.P.: St. Dir.: R. A. Robinson. **HOME SCE.** in English, French, Pidgin-English: 3277 kc/s 91.55 m 0.25 kW: D. 07.00-09.00. - V. by letter. - F.P.L.: Possible use of 3955 or 4980 kc/s if service required at 01.00-07.00. Power to 0.5 kW.

★ NEW ZEALAND ★

L.T.: GMT+12 h. - Pr.L.: English, Maori. - Po.: 2.414.064. - Rcvrs.: 600.000. - E.C.: 220/240 V., A.C., 50 c/s.

NEW ZEALAND BROADCASTING SERVICE (Go.)

F.I.: By license payments and adv. - AD.: St.s other than YA, YC and YZ st.s broadcast. adv. D. exc. Sun.
 ADDR.: The Director, New Zealand Broadcasting Service, P.O. Box 98, Wellington. Cable: Broadserv. Te.: 70-999. - L.P.: Dir.: J. H. E. Schroder. Chief Engineer: W. L. Harrison.
HOME SERVICE in English: * Private st.

	kc/s	m	kW	H. of tr.
Wellington	2YA	570	526	100
Wellington	2YC	660	455	60
Christchurch	3YA	690	434	10
Invercargill	4YZ	720	416	5
Auckland	1YA	760	395	10
Dunedin	4YA	780	384	10
Rotorua	1YZ	800	375	10
Invercargill	4ZA	820	366	10
Masterton	2XB	840	357	2
Napier	2YZ	860	349	5
Auckland	1YC	880	341	10
Dunedin	4YC	900	333	10
Greymouth	3YZ	920	326	10
Palmerston Nth.	2ZA	940	319	2
Christchurch	3YC	960	312	10
Whangarei	1XN	970	309	2
Wellington	2ZB	980	306	10
Tauranga	1ZD	1000	300	10
Gisborne	2XG	1010	297	2
Dunedin	4ZB	1040	288	10
Auckland	1ZB	1070	280	10
Christchurch	3ZB	1100	273	10
Wellington	2YD	1130	265	2
Timaru	3XC	1160	258	2
Gisborne	2XM*	1180	254	0.09
Wanganui	2XA	1200	250	2
Auckland	1YD	1250	240	2
Hawkes Bay	2ZC	1280	234	2
Hamilton	1XH	1310	229	2
Nelson	2XN	1340	224	2
New Plymouth	2XP	1370	219	2
Wellington	2YX	1400	214	1
Dunedin	4XD*	1430	210	0.06
Rotorua	1ZC	1520	197	0.75

N.: D. (BBC): 18.00, 19.00, 20.00, 06.30, 11.00, 09.03 (NZBS). - N. in Maori: Sun. 06.00. - Wrp.: D.: 18.15, 19.15, 21.00, 00.30, 06.25, 09.00. - Rel.: W. 22.00, Sun.: 23.00, 07.00. - L.L.: French: Mo. 02.45 (Feb.-Aug.).

FOREIGN SERVICE: Radio New Zealand 7.5 kW.

ADDR.: The Director, Radio New Zealand, P.O. Box 2396, Wellington. Cable: Natbroadcast. - L.P.: St. Mgr.: A. L. Curry. Prgr. Officer: H. W. Taylor-Smith.

	kc/s	m		kc/s	m		kc/s	m
ZL20	6020	49.83	ZL2	9540	31.45	ZL4	15280	19.63
ZL7	6080	49.34	ZL3	11780	25.47			

Two frequencies are used simultaneously, and as the prgr.sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions.

To Pacific Islands:

17.00-18.45 Home Sce. prgr. on 11780, 15280 kc/s.
 19.00-05.45 Home Sce. prgr. on 15280 kc/s.
 06.00-08.45 Special prgr. on 6080, 11780 kc/s.

To Australia:

D. 19.00-05.45 Home Sce. prgr. on 15280 kc/s.
D. 09.00-11.45 Special prgr. on 6080, 11780 kc/s.
"Calling Antarctica" (a prgr. of news, sporting Review and "Family Corner" directed to N.Z. scientific personnel in the Ross Dependency): Sun. 08.15-08.45 on 6020 kc/s (subject to change). - "Calling Samoa" (in Samoan): Mo. 20.40-20.55 on 15280 kc/s (subject to change), Tues. 07.00-07.30 (repeat) on 6080, 11780 kc/s.
"Calling The Cook Islands and Niue" (in Rarotongan): Wed. 07.10-07.30, Sat. 08.00-08.20 (repeat) on 6080, 11780 kc/s.
New Zealand News: Mo.-Fri. 00.33, Mo.-Sat.: 07.30, 08.40, 09.30, Sun. 09.03. - Rel.: W. (in N.Z.): 22.10. Sun. (in N.Z.): 23.00. - Folklore Music: Thurs.: 07.45, 09.45. Sun.: 06.45, 10.15. - DX Prgr.: 1st Wed. in month: 06.40, 10.30. - Mbg.: Fri.: 07.00, 10.00. - Prgr. Previews: 21.30, 00.50, 06.10, 07.40, 08.40, 09.00, 09.40, 11.40.
ANN.: "This is New Zealand Calling". - INT.-SIG.: Call of the N.Z. Bell bird (at 5 second intervals). - V. by QSL-card (sea mail). - PUB.: "The N.Z. Listener" (Home Sce.) 30 sh. (N.Z.) yearly. R.N.Z. Prgr. sched. (Free to overseas listeners on request).

★ **NORFOLK ISLAND (Austral. Terr.)** ★

L.T.: GMT+1½ h. - Pr.L.: English. - Po.: 1000.
NORFOLK ISLAND BROADCASTING SERVICE (Go.)
ADDR.: Civil Aviation, Norfolk Island. 1500 kc/s 200 m 0.06 kW.
D. PRGR.: Sat. 17.30 (fortnightly).

★ **SAMOA** ★

L.T.: GMT+11 h. - Pr.L.: Samoan, English. - Po.: 110,000. - Rcvrs.: 5,000. - E.C.: 115-120 V., 220-230 V., A.C., 50 c/s.

WESTERN SAMOA

BROADCASTING STATION 2AP (Independent).
ADDR.: Broadcasting Department, P.O. Box 200, Apia, Western Samoa. Cable: Voxpac. Te.: 2. - L.P.: Dir.: J. W. Moore. Prgr. Supervisor: L. Levi (Acting). Technician-in-charge: J. K. Brown.
HOME SERVICE: 2AP Apia 1420 kc/s 211.3 m 10 kW.
English/Samoan: W. 17.45-20.00. Sun.: 20.00-23.00, 05.30-08.30. - English: W. 05.30-06.30. - Samoan: W. 06.30-08.30. - N.: English: W.: 18.00, 06.00. Samoan: 06.45.
ANN.: "2AP, Apia, Western Samoa". - V. by QSL-card.

AMERICAN SAMOA (U.S. Territory)

RADIOSTATION WVUV (Go.)
ADDR.: Office of Information and Adult Education, Pago Pago. Te.: 648.
HOME SCE.: English, Samoan: WVUV 1120 kc/s 267.8 m 0.05 kW. Mo.-Fri.: 18.00-22.00, Tues.-Sat. 05.00-08.00, Sat. 17.00-Sun. 03.00, Sun. 21.00-Mo. 02.00.
N.: English: Mo.-Fri. 18.30; Tues.-Sat. 05.45; Sat. 22.00, 23.00, 24.00. Sun. 01.00, 02.00. Samoan: Mo.-Fri. 19.45, 06.30, 07.30. Sat. every h. on the h. from 22.00-02.00. - ANN.: E.: "This is Station WVUV, Pago Pago, American Samoa". - V. by letter. - PUB.: Weekly information paper and a daily news sheet in English. - F.P.L.: Increase power to 0.25 kW.

★ **SOLOMON ISLANDS (British)** ★

L.T.: GMT+11 h. - Pr.L.: English, Pidgin-English, Vernaculars. - Po.: 124,000. - Rcvrs.: 600. - E.C.: 240 V., A.C. 50 c/s.
SOLOMON ISLANDS BROADCASTING SERVICE (Go.)
FL.: By Go., license payments and adv. - AD.: Up to max. of one third prgr., D. exc. Sun. - ADDR.: P.O. Box 115, Honiara. Cable: Broadcasts. Te.: 225.
L.P.: Broadc. Officer: R. F. Calvert. Broadc. Eng.: L. MacLachlan. Asst. Broadc. Officer: W. Bennett.
HOME SERVICE: Mo.-Fri. 08.00-11.15, Sat. & Sun. 08.59-11.15. VQO 1030 kc/s 291 m 0.66 kW - VQO2 5960 kc/s 50.34 m 5 kW d. English: D. 08.59-11.15. N.: W.: 09.30, 11.10. - Pidgin English: Mo.-Fri. 08.00-08.59. N.: 08.15. - N. in Vernaculars: Tues. 08.30. - Folklore Music: Tues. 08.35-08.59.
ANN.: "This is the Solomon Islands Broadcasting Service VQO and short wave transmitter VQO2". - V. by QSL-card by surface mail. Re. must contain sufficient detail to establish authenticity. - PUB.: Prgr. schedule sent by surface mail free on request.

★ **TAHITI (French)** ★

L.T.: GMT+10 h. - Pr.L.: French, Tahitian, Maori. - Po.: 80,000. - Rcvrs.: 17,000. - E.C.: 110 V., A.C., 60 c/s.
RADIO TAHITI (Go.)
ADDR.: R.diff.-Télévision Française, Station de Tahiti, Rue Dumont d'Urville 410, Papeete. Cable: Radio Tahiti. Te.: 243.
L.P.: Dir.: M. Espinasse. - **HOME SCE.:** 4 kW.
6135 kc/s 48.90 m | W. 21.30-23.00, 03.30-07.30*
11825 - 25.37 - J | Sun.: 20.00-23.00, 03.30-08.00*
* Although times are GMT calendar days apply to Tahiti only.

Tahitian: 21.30-21.45(W), 03.30-05.00 (daily). - French: 21.45-23.00(W), 05.00-07.30(Sun. 08.00). - Bilingual: Sun. 20.00-23.00. - School broadcasts (in French): Mo.-Fri. 18.15-18.45.
ANN.: "Ici Radio Tahiti, Poste National Français". - INT.-SIG.: Tahitian flute (vivo) and Drums. - V. by QSL-card. - PUB.: Prgr. schedule free on request.

★ **TONGA (Kingdom of)** ★

L.T.: GMT+13 h. - Po.: 64,000. - Rcvrs.: 1,500. - E.C.: 220/230 V. A.C.
TONGAN BROADCASTING COMMISSION (Go.) - FL.: Govt. Dept. assisted by Revenue from adv. - AD.: Mainly "Spot" spread over transm. periods, also sponsored "feature" prgrs. - ADDR.: P.O. Box 36, Nuku'alofa. Cable: Broadcom. Te.: 105.
L.P.: Mgr.: R. G. Haggett. Prgr. Dir.: R. MacDonald. St. Eng.: H. J. Chapman.
HOME SERVICE in Tongian and English:
ZCO 1020 kc/s 10 kW: 18.00-20.00, 06.00-09.30.
Special Tongan Prgrs.: 18.30-19.00, 06.00-07.00. - N.: Tongan: 19.00 (Headlines), 06.15 (World, Local N., Notices). English: 18.00 (BBC), 07.00 (World, Local N., Notices). - Weather Forecasts (For Tonga and Niue, Samoa and Fiji): At end of news at 06.15, 08.15 and at 19.15. - Samoan (For Samoan Group): Weekly 08.30-09.00.
ANN.: "This is the Call of the Friendly Islands ZCO Nuku'alofa of the Tonga Broadcasting Commission". - INT.-SIG.: Tongan Nose Flute. - V. by QSL-card or by letter.



Advertisement.

For Manufacturers and Agents with goods distributed throughout the South Pacific Islands and New Zealand, the Tonga Broadcasting Commission provides an excellent advertising medium. All enquires to the
Manager,
P.O. Box 36,
Nuku'alofa,
TONGA



NORTH AMERICA

incl. Mexico and Puerto Rico



★ **CANADA** ★

L.T.: See table: World Time. - Pr.L.: English, French. - Po.: 18,250,000. - Rcvrs.: 8,000,000. - E.C.: 110/220 V., A.C., 60 c/s.
CANADIAN BROADCASTING CORPORATION
INTERNATIONAL SERVICE (Publicly owned)
ADDR.: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal. Cable: Intrad.
L.P.: Dir.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sec.: J. M. Laporte. Supervisor of Inf. Sec.: H. Shene. Transcription Sec.'s: Head English-Language Section: P. A. Tallman. Head French-Language Section: J. M. Marcotte. Head Latin American Section: P. Marcos Bilbao.
STATIONS: All international s.w. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgrs. are produced in Montreal and beamed from two 50 kW transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
CKNA	5970	50.25	CHFO	9740	30.80	CKBR	15275	19.64
CHAY	5990	50.08	CKXA	11705	25.63	CKCS	15320	19.58
CKRZ	6060	49.50	CHOL	11720	25.60	CHSB	17710	16.94
CKOB	6090	49.26	CKRA	11760	25.51	CHRX	17735	16.92
CHAC	6160	48.70	CKEX	11900	25.21	CKNC	17820	16.84
CKLP	9585	31.30	CKNK	11945	25.12	CHYS	17865	16.80
CHLS	9610	31.22	CKNS	15105	19.86	CKRP	21600	13.89
CKLO	9630	31.15	CKCX	15190	19.75	CHLA	21710	13.82
CHLR	9710	30.90	CKSR	15255	19.67			

EUROPEAN SERVICE (Nov. 1961-May 1962)
11.25-18.30 on 17820/15320/11720 kc/s
Time Prgr.
11.25-12.00 Czech Daily



Time	Prgr.	
12.00-13.00	Forces Relay	Sun. only
12.00-12.30	Forces Relay	
12.30-13.00	Prgr.s for Europe	Mo.-Sat.
13.00-13.30	Polish	Daily
13.30-14.00	Musical Prgr.	-
14.00-14.30	Ukrainian	-
14.30-15.30	Russian	-
15.30-15.45	News in English & French	-
15.45-16.00	Hungarian	-
16.00-16.15	Slovak	-
16.15-17.00	Czech	-
17.00-17.15	News in English*	-
17.15-18.00	Polish	-
18.00-18.30	German	-

* for ships at sea and Forces.

20.00-21.30	on 11720/9630 kc/s
20.00-20.45	French
20.45-21.30	English

AFRICAN SERVICE:

18.30-20.00	on 15320/11720 kc/s
18.30-19.15	English
19.15-20.00	French

NORTHERN CANADA SERVICE (East & Central):

on 9585/6060 kc/s	
22.00-22.45	French & English

CARIBBEAN & LATIN AMERICAN SERVICE:

on 11760/9740 kc/s	
23.00-23.30	English
23.30-24.00	Portuguese
00.00-00.45	Spanish

NORTHERN CANADA SERVICE (Central & West):

on 9585/6060 kc/s	
01.00-07.05	English

AUSTRALIAN SERVICE: on 9630 kc/s

08.25-09.05	English
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ANN.: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is Canada".

INT.-SIG.: First four notes of the National Anthem "O Canada"



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal. - V. by letter or QSL-card. - PUB.: CBC-Radio-Canada prgr.sched. (ill.) published five times a year and sent free on request.

CBC NATIONAL SERVICE (Publicly owned).

Abbreviations: Nf=Newfoundland, NS=Nova Scotia, PEI=Prince Edward Isl, NB=N. Brunswick, P=Pacific, Qu=Quebec, O=Ontario, M=Manitoba, Sa=Saskatchewan, Al=Alberta, BC=British Columbia, W=Winnipeg, Pr=Province, Prince R=Prince Rupert, NWT=No.W. Territories.

ADDR.: Head Office: 140 Wellington Street, Ottawa. - International Service: Radio-Canada Building, 1425 Dorchester Street W., Montreal. French Networks Division: Radio-Canada Building, 1425 Dorchester Street W., Montreal. - English Networks Division: 354 Jarvis Street, Toronto. - Newfoundland Reg.: T. A. Building, St. John's. - Maritime Reg.: United Services Building, 100 Sackville Street, Halifax. - Prairie Reg.: 541 Portage Avenue, Winnipeg. - British Columbia Reg.: 701 Hornby Street, Vancouver. - Ottawa Area: Chateau Laurier, Ottawa. - Northern and Armed Forces Services: Commonwealth Bldg. 77 Metcalfe Street, Ottawa. - Engineering Headquarters: 5253 Decarie Boulevard, Montreal. - Offices outside Canada: CBC Representative at the United Nations, c/o the United Nations, New York, N.Y., USA; CBC Representative in London, The Langham, Portland Place, London W.1, England; CBC Representative in Paris, Hotel Napoleon, 38 Avenue Friedland, Paris 8e, France.

L.P.: Pres.: J. A. Ouimet. Vice Pres.: Capt. W. E. S. Briggs. Vice Pres. Programming: E. S. Hallman. Vice Pres. Adm.: M. Carter. Comptroller: V. F. Davies. Vice Pres. Engineering & Operations: J. P. Gilmore. Vice Pres. Corporate Affairs: R. C. Fraser. Gen. Mgr. Reg. Broadc.: C. Jennings. Gen. Mgr. English Networks: H. G. Walker. Gen. Mgr. French Networks: M. Ouimet.

CBC Representatives: Paris: B. Lafleur. London: S. Moore. United Nations: J. Craine.

ENGLISH NETWORKS: Basic Stations. ° Shortwave.

Medium Waves:

Call	kc/s kW	Call	kc/s kW
1) CBK 540 50	Regina-Sa	10) CBT 990 1	Gr. Falls-Nf
2) CBN 640 10	St. John's-Nf	11) CBW 990 50	Winnipeg-M
3) CBU 690 10	Vanc.-BC	12) CBX 1010 50	Edmonton-Al

4) CBL 740 50	Toronto-O	13) CBA 1070 50	Sackvil.-NB
5) CBXA 740 0.25	Edmonton-Al	14) CBI 1140 5	Sydney-NS
6) CBY 790 1	Corner B.-Nf	15) CFPR 1240 0.25	Prince R. BC
7) CBC 860 50	Toronto-O	16) CBH 1330 0.1	Halifax-NS
8) CBO 910 5	Ottawa-O	17) CBG 1450 0.25	Gander-Nf
9) CBM 940 50	Montr.-Qu	18) CBE 1550 10	Windsor-O

No. 7 Dominion Netw., other numbers Trans Canada Netw.

- 1) P.O. Box 347, Regina, Sa. - D. Prgr.: W. 13.00-07.06. Sun. 16.00-08.06.
- 2) P.O. Box E5372, St. John's, Nf. - D. Prgr.: 11.00-03.35.
- 3) 701 Hornby St., Vancouver, B.C. - D. Prgr.: W. 14.00-08.05. Sun. 15.00-08.05.
- 4) P.O. Box 500, Toronto, O. - D. Prgr.: 12.00(Sun. 13.00)-06.00.
- 5) P.O. Box 290, Edmonton, Al. - D. Prgr.: 13.45-08.00.
- 6) CBC Corner Brook, Nf. - D. Prgr.: 11.00-03.35.
- 7) P.O. Box 500, Toronto, O. - D. Prgr.: 11.00(Sun. 13.45)-06.00.
- 8) P.O. Box 1045, Ottawa, O. - D. Prgr.: 12.00(Sun. 13.00)-05.05.
- 9) P.O. Box 6000, Montreal. - D. Prgr.: 12.00(Sun. 13.00)-05.03.
- 10) CBC Grand Falls, Nf. - D. Prgr.: 11.00-03.35.
- 11) P.O. Box 160, Winnipeg, M. - D. Prgr.: 12.45(Sun. 14.45)-07.00.
- 12) P.O. Box 290, Edmonton, Al. - D. Prgr.: 13.45(Sun. 14.45)-07.00.
- 13) P.O. Box 175, Halifax, N.S. - D. Prgr.: 12.45-04.10.
- 14) Box 700, Sydney, N.S. - D. Prgr.: 11.00(Sun. 12.45)-04.10. -
- 15) 343 W 2nd Ave., Prince Rupert, B.C. - D. Prgr.: W. 15.00-08.00. Sun. 16.00-07.00.
- 16) P.O. Box 175, Halifax, N.S. - D. Prgr.: W. 11.30-04.00. Sun. 12.45-04.10.
- 17) 98 Sullivan Ave., Gander, Nf. - D. Prgr.: 11.00-03.35.
- 18) Security Bldg., Windsor, O. - D. Prgr.: 11.00-05.05.

V.: All 18 of these st's will verify with QSL card.

FM:

CBC-FM	99.1 mc/s	11.9 kW	Toronto, O.
CBM-FM	100.7	3.86	Montreal, Qu.
CBO-FM	103.3	0.38	Ottawa, O.
CBU-FM	105.7	1	Vancouver, BC.

SHORT WAVES:

2) CBNX	5970 kc/s	50.25 m	0.3 kW	St. John's (relay CBN)
3) CBUX	6160	48.70	0.5	Vancouver (relay CBU)

Note: Although times are in GMT, calendar days apply to Canada only.

CBNX: N. & Wrp.: W.: 11.00, 11.30, 12.00, 12.15, 13.00 (exc. Sat), 14.00 (Sat), 15.30, 17.00, 19.00*, 20.00*, 21.30, 22.30, 00.25 (Sat), 03.00 (exc. Sat), 04.05 (Sat).

Sum. 12.30, 13.00, 15.45, 17.00, 20.00, 23.30, 03.00.

***) Mo., Tues., Fri., only.**

CBUX: N. & Wrp.: W.: 14.00, 14.05 (Mo.), 15.05 (Mo.), 15.30 (Mo.), 16.00 (Mo.), 16.30 (Mo.), 17.00, 19.00 (Sat.), 20.15 (exc. Sat), 22.30 (exc. Sat), 00.25 (Sat), 00.27 (Mo.), 01.30 (exc. Sat), 02.30 (Sat), 03.00 (Tues-Fri.), 06.00, 07.57 (exc. Mo.), 08.00 (Mo).

Sum. 15.00, 17.00, 19.00, 00.25, 02.30, 06.00, 07.57. - Marine Weather: 14.54 (Mo.), 14.55 (Sat.), 20.55 (exc. Sat./Sun.), 08.00.

ANN.: CBUX: "This is the Canadian Broadcasting Corporation CBU/CBUX, Vancouver".

V.: CBNX/CBUX: by QSL-card unless extra inf. is requested, in which case letters of explanation are sent.

PRIVATE BASIC ST'S (TRANS CANADA NETW.)

Call	kc/s	kW	Call	kc/s	kW	
CFNB	550	50	Frederict., NB	CKSO	790 10	Sudbury, O
CJKL	560	5	Kirkland L., O	CFJC	910 10	Kamloops, BC
CKPR	580	5	Ft. William, O	CKWS	960 5	Kingston, O
CFCH	600	10	No. Bay, O	CJIC	1050 0.25	Ste. Marie, O
CJAT	610	1	Trail, BC	CHSJ	1150 5	St. John, NB
CKOV	630	1	Kelowna, BC	CJOC	1220 10	Lethbridge Al
CKGB	680	5	Timmins, O			

NORTHERN SERVICE: Medium Waves:

Call	kc/s kW	Call	kc/s kW
CBXH	860 0.04	Ft. Smith, NWT	
CHAK	860 1	Inuvik, NWT	
CFFB	1200 0.04	Frrobisher Bay, NWT	
CHFC	1230 0.25	Ft. Churchill, Man	
CFWH	1240 0.25	Whitehorse, Yukon	
CFYK	1340 0.15	Yellowknife, NWT	
CFGB	1340 0.25	Gosw Bay, Nf.	

Low power repeater st.s (0.04 kW):

CBXO 560 kc/s Elsa, Yukon - CBXF 860 kc/s Ft. Nelson, BC - CBXG 860 kc/s Watson Lake, Yukon - CBXZ 1230 kc/s Mayo, Yukon - CHFR 1490 kc/s Hay River, NWT. CBDE 560 kc/s Dawson, Yukon

NORTHERN SERVICE: Shortwave: On 6060/9585 kc/s:

D. 22.00-22.45 to Ea. Arctic French, English. - D. 01.00-07.05 to C. & We. Arctic English.

N. in French: 22.00. - N. in English: D.: 01.00, 02.00, 03.00, 04.00*, 05.00, 06.00, 07.00. * incl. Wrp.

FRENCH NETWORK:

CBF 690 kc/s	50 kW	Montreal	CBV 980 kc/s	10 kW	Quebec		
CBJ 1580	-	10	Chicoutimi	CBAF 1300	-	5	Moncton
FM: CBF 95.1 mc/s 3.86 kW Montreal.							

FM: CBF 95.1 mc/s 3.86 kW Montreal.

Canada

CBAF (Basic St.): Addr.: Assumption Bldg., 232 St. George Str., Moncton, N.B. - D. Prgr.: 11.00-04.30.

F.P.L.: Low power relay tr.s throughout the country. - **PUB.:** "CBC Times" (English) (Eastern Prairie, British Columbia editions); weekly, and "La Semaine à Radio-Canada" (French); weekly.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks Str., Ottawa 4.

Medium Waves: 103 less 5 kW stations not mentioned. **FM:** 30 st.'s. **St. 9)** Go. owned.

Call	kc/s	kW	Call	kc/s	kW
1) CHLN	550	5d	51) CHNS	960	10d ¹⁾
2) CFNB	550	50	52) CKWS	960	5d ¹⁾
3) CFRA	560	5d ¹⁾	53) CKCH	970	5d
4) CJKL	560	5d	54) CFPL	980	10/5d
5) CJFX	580	5d	55) CHEX	980	5d
6) CKEY	580	5/1d	56) CKRM	980	10/5d
7) CKPR	580	5/1 ¹⁾	57) CKNW	980	10/5d
8) CKY	580	50d	58) CKGM	980	10d
9) CKUA	580	10	59) CFRB	*1010	50d
10) VOCM	590	10	60) CFBP	1050	10d
11) CFCF	600	5d ¹⁾	61) CHUM	1050	5/2.5d
12) CFCH	600	10/5d	62) CKSB	1050	10d
13) CFQC	600	5d	63) CJIC	1050	10/2.5d
14) CJOR	600	10d	64) CFNC	*1060	10d
15) CHNC	610	5d	65) CJLR	1060	5d
16) KCTB	610	10/5d ¹⁾	66) CHOK	1070	5/1d
17) CKCK	620	5d	67) CHED	1080	10/1d
18) CFCL	620	10/2.5d	68) CHEC	1090	5d
19) CFCY	630	5d	69) CKWV	*1130	50d
20) CKRC	630	5d	70) CKXL	1140	10d
21) CHLT	630	10/5d	71) CHSJ	1150	10/5d
22) CHFA	680	5d	72) CKOC	1150	5d
23) CJOB	680	10 ¹⁾	73) CKX	1150	10/1d
24) CKGB	680	10	74) CKTR	1150	10/1d
25) CFRG	710	5	75) CJOC	1220	10/5d
26) CKAC	730	50d	76) CKCW	1220	10d
27) CKLG	730	10d	77) CKDA	1220	10d ¹⁾
28) CKDM	730	10/5d	78) CKBL	1250	5d
29) CKSO	790	10/5d	79) CFRN	1260	50d
30) CFCW	790	10d	80) CJCB	*1270	5/1d ¹⁾
31) CHAB	800	10/5d	81) CHWK	1270	10d
32) CHRC	800	10d ¹⁾	82) CJMS	1280	10/5d
33) CJAD	800	10d	83) CKCV	1280	5d
34) CKLW	800	50d ¹⁾	84) CHIQ	1280	5/2.5d
35) CJLX	800	5d	85) CFAM	1290	10/5d
36) CKOK	800	10/0.5d	86) CKSL	1290	5d
37) CKVL	850	10/5d	87) CKOY	1310	5/1d
38) CHML	900	5d	88) CHQM	1320	10d
39) CHNO	900	10/1d	89) CKLB	1350	10/5d ¹⁾
40) CJBR	900	10d ¹⁾	90) CKLC	1380	5d ¹⁾
41) CJVI	900	10d	91) CKPC	1380	10d
42) CKBI	900	10d	92) CFUM	1410	10
43) CFCJ	910	10/1	93) CKOM	1420	5d
44) CJCH	920	10/5d	94) CKFH	1430	10/5d
45) CFBC	930	10d	95) CJNB	1460	10d
46) CJCA	930	10/5d ¹⁾	96) CKRB	1460	10/5d
47) CJON	930	10d	97) CJQY	1460	10/5d
48) CJGX	940	10/1	98) CFOR	1570	10/1d
49) CKBB	950	5/2.5d	99) CHUB	1570	10d ¹⁾
50) CFAC	960	10d	100) CHVC	1600	10d

¹⁾ FM. ° Short Wave. d=Directional aerial.

Short Waves:	kc/s	kW	m.w.	Name
80) CJCX	6010	1	1270	Cape Breton Broadcasters Ltd.: 11.00-04.00
51) CHNX	6130	0.5	960	Maritime Broadcasting Co.: 24h
64) CFVP	6030	0.1	1060	The Voice of the Prairies, Ltd.: 24 h. exc. Mo. 07.05-13.00.
59) CFRX	6070	1	1010	Rogers Radio Broadcasting Co.: W. 10.30-06.05. Sun. 13.00-05.05.
69) CFFX	6080	0.1	1130	CKWX Radio, Ltd.: 24 h.

Medium Waves:

- 1) R. Trois Rivières Inc., 522 Bonaventure Str., Trois Rivières, Qu. - D. Prgr.: W. 09.50-04.00. Sun. 13.00-04.00.
- 2) R. CFNB, 67 York St., Fredericton, N.B. - L.P.; Gen. Mgr.: D. M. Neill. Dir. Tec.: G. D. Love. - D. Prgr.: 24 h. - V. by QSL-card.
- 3) CFRA Broadcasting Ltd., 150 Isabella St., Ottawa, O. - L.P.; Pres.: F. Ryan. Dir. Tec.: J. Sproat. - D. Prgr.: 24 h. - V. by QSL-card.
- 4) Kirkland Lake Broadcast. Ltd., Government Rd. W., Kirkland Lake, O. - D. Prgr.: W. 11.00-05.15. Sun. 13.00-05.15.
- 5) Atlantic Broadcasters Ltd., St. Ninian Str., Antigonish, N.S. - D. Prgr.: 10.45(Sun. 13.00)-04.15. - V. by letter.
- 6) Consolidated Frybrook Industries Ltd., 1262 Don Mills R., Toronto, O. - D. Prgr.: 24 h.
- 7) H. F. Dougall Co. Ltd., 414 Victoria Ave., Fort William, O. - D. Prgr.: 11.25(Sun. 14.00)-05.00.

- 8) Broadc. St. CKY Ltd., 432 Main Str., Winnipeg, M. - L.P.; Dir. Gen.: L. E. Moffat. - D. Prgr.: 24 h. - V. by letter.
- 9) R. Station CKUA, University of Alberta, 10526 Jasper Ave., Edmonton, Alta. - L.P.; St. Mgr.: J. W. Hagerman. Dir. Tec.: W. Pinko. - D. Prgr.: 13.00-07.00. - V. by letter.
- 10) Colonial Broadcast. System Ltd., McBride's Hill, St. John's, Nfld. - D. Prgr.: W. 10.00-04.30.
- 11) Canadian Marconi Co. Ltd., 600 Dominion Square Bldg., Montreal, Qu. - D. Prgr.: 24 h.
- 12) Northern Broadc. Ltd., 581 Fraser St., North Bay, O.
- 13) Radio CFQC, 216 First Ave. N., Saskatoon, Sas. - L.P.; Dir. Gen.: A. Murphy. - D. Prgr.: W. 24 h. exc. Mo. 07.00-13.00.
- 14) CJOR Ltd., 846 Howe St., Vancouver, B.C. - L.P.; Dir. Gen.: G. Chandler. - D. Prgr.: 14.00(Sun. 15.30)-08.00. - V. by QSL-card or letter.
- 15) Radio St. CHNC, N. Carlisle, Qu. - L.P.; Dir. Gen.: Dr. C. H. Houde. - D. Prgr.: French: 12.00-05.00. - CKNB: English: 11.00(Sun. 13.00)-04.15.
- 16) The Niagara Distr. Broadc. Co. Ltd., 12 Yates St. St. Catharines, O. - L.P.; Dir. Gen.: Miss M. C. Burgoyne. Dir. Tec.: W. Allen. - D. Prgr.: 10.45(Sun. 12.40)-05.15. - V. by QSL-card or letter. - FM: 97.7 mc/s 0.25 kW. Polish: Sat. 19.00-19.30. Sun. 14.00-15.00. German: Sun. 02.00-03.00. Ukrainian: Sun., Sat. 18.00-19.00. Dutch: Mo. 02.00-03.00.
- 17) Transcanada Communications, The Leader Post Bldg., Regina, Sas. - L.P.; Mgr.: D. R. Dawson. Dir. Tec.: E. A. Strong. - D. Prgr.: 24 h. - V. by QSL-card.
- 18) J. Conrad Lavigne Enterprises Ltd., Timmins, O. - D. Prgr.: 11.00(Sun. 13.00)-06.00(Sat. 07.00).
- 19) Island R. Broadc. Co. Ltd., Broadc. Centre, 85 Kent Str., Charlottetown, PEI. - D. Prgr.: 11.15(Sun. 13.00)-04.00.
- 20) R. Station CKRC, 300 Carlton Str., Winnipeg, M. - D. Prgr.: 24 h. - V. by letter.
- 21) La Tribune Limitee, 221 Dufferin Street, Sherbrooke, Qu. - D. Prgr.: 11.00(Sun. 13.00)-05.00.
- 22) R. Edmonton Ltd., 10012-109th Str., Edmonton, Al. - D. Prgr.: 14.00(Sun. 17.00)-07.00.
- 23) Blich Broadc. Ltd., Lindsay Bldg., 228 Notre Dame Ave., Winnipeg, M. - L.P.; Gen. Mgr.: J. O. Blich. Dir. Tec.: R. V. Durie. - D. Prgr.: 24 h. - V. by QSL-letter.
- 24) Timmins Broadc. Co. Ltd., Thomson Bldg., Timmins, O. - D. Prgr.: W. 11.00-05.10(Sat. 06.00). Sun. 12.00-05.10.
- 25) Radio Gravelbourg, Gravelbourg, Sas. - D. Prgr.: W. 14.00-05.00. Sun. 18.00-05.00.
- 26) La Cie. de Publication de "la Presse", 980 St. Catherine St. W., Montreal, Qu. - D. Prgr.: 12.00-07.00.
- 27) Lions Gate Broadc. Ltd., 143 East 11th Str. N., Vancouver, B.C. - D. Prgr.: 24 h.
- 28) Dauphin Broadcasting Co. Ltd., Third Ave. NE., Dauphin, Man. - D. Prgr.: 24 h.
- 29) CKSO R. Ltd., 336 Ash Str., Sudbury, O. - D. Prgr.: 11.00(Sun. 12.00)-06.00.
- 30) Camrose Broadcasting Co. Ltd., 4832-50th Str., Camrose, Al.
- 31) R. St. CHAB, 127 Main Str., Moose Jaw, Sa. - L.P.; Mgr.: S. Boyling. Dir. Tec.: M. Pickford. - D. Prgr.: 13.00-07.00. - V. by letter.
- 32) CHRC Ltd., 39 rue St-Jean, Quebec. - D. Prgr.: 11.00(Sun. 13.30)-05.00. - V. by QSL-card.
- 33) CJAD Ltd., 1191 Mountain Str., Montreal, Qu. - D. Prgr.: 11.00(Sun. 12.00)-05.05.
- 34) Western Ontario Broadc. Co. Ltd., 825 Riverside Drive West, Windsor, O. - L.P.; Gen. Mgr.: J. E. Campeau. Dir. Tec.: St. Clark. - D. Prgr.: 24 h. - V. by letter.
- 35) CJLX, Lakehead Broadc. Co., 407 Victoria Ave., Fort William, O. - L.P.; Pres. & Gen. Mgr.: R. P. MacGowan. - D. Prgr.: W. 11.00-06.00. Sun. 13.00-05.00.
- 36) CKOK Ltd., 125 Nanaimo Ave. W., Penticton, B.C. - L.P.; Pres. & Gen. Mgr.: M. P. Finnerly.
- 37) CKVL Ltd., 211 Gordon Ave., Verdun, Qu. - D. Prgr.: 24 h.
- 38) Maple Leaf Broadc. Co. Ltd., 848 Main St. E., Hamilton, O. - L.P.; Pres.: K. D. Soble. - D. Prgr.: 10.00(Sun. 12.00)-07.00.
- 39) The Sudbury Broadc. Co. Ltd., 166 Elm Str. W., Sudbury, O. - L.P.; Pres. & Gen. Mgr.: F. B. Ricard. - D. Prgr.: 24 h.
- 40) Lower St. Laurence Radio Inc., 6 St. Jean Str., Rimouski, Qu. - L.P.; Dir. Gen.: J. Brillant. - D. Prgr.: 11.00-06.00.
- 41) Island Broadc. Co. Ltd., 817 Fort St., Victoria, B.C. - L.P.; Mgr.: Wm. M. Guild. Dir. Prgr.: W. Cowaden. Dir. Tec.: J. Sommers. - D. Prgr.: D. 13.30-09.00. - N. 5 min. every h. - ANN: "This is R. CJVI, Victoria, your family station". - V. by letter.
- 42) Central Broadc. Co. Ltd., CKBI Bldg., 10th Str., Prince Albert, Sas. - D. Prgr.: 13.00(Sun. 13.30)-08.00.
- 43) Inland Broadcasters Ltd., 3874th Ave., Kamloops, B.C. - D. Prgr.: W. 14.00-07.30. Sun. 15.30-07.00.
- 44) CJCH Ltd., 741 Robie Str., Halifax, N.S. - D. Prgr.: 14.00-04.15.
- 45) Fundy Broadc. Co. Ltd., 68 Carleton Str. St. John, N.B. - L.P.; Gen. Mgr.: R. T. Bowman. Dir. Tec.: H. M. Stout. - D. Prgr.: W. 10.00-05.00. Sun. 12.00-04.15. - V. by letter.

- 46) Edmonton Broadc. Ltd., 10113-104th Str., Edmonton, A. - D. Prgr.: 24 h.
- 47) The Newfoundland Broadc. Co. Ltd., Prince of Wales Str., St. John's, Nfld. - D. Prgr.: D. 10.00-04.30 (Sat. 05.30).
- 48) Yorkton Broadc. Co. Ltd., Tower Theatre Bldg., 2nd Ave., Yorkton, Sas. - D. Prgr.: W. 13.00-07.00 (Sat. 08.00) Sun. 14.00-07.00.
- 49) Barrie Broadc. Co. Ltd., P. O. Box 519, Barrie, O. - D. Prgr.: W. 11.00-04.05. Sun. 13.25-04.05. - V. by QSL-card or letter. R.p.
- 50) Calgary Broadc. Co. Ltd., 1301-17th Ave. S.W., Calgary, Al. - L.P.: Gen. Mgr.: D. H. Hartford. Dir. Tec.: E. C. Connor. - D. Prgr.: 24 h. exc. Tues. 07.00-12.30. - V. by QSL-card. R.p.
- 51) The Maritime Broadc. Co., P. O. Box 400, Halifax, N.S. - L.P.: Gen. Mgr.: F. W. Arenburg. Dir. Tec.: A. W. Greig. - V. by QSL-card. R.p.
- 52) The Frontenac Broadc. Co., 170 Queen Str., Kingston, O. - D. Prgr.: 11.00 (Sun. 12.45)-06.00.
- 53) La Compagnie de Radiodiffusion CKCH de Hull Ltée., 72 Laval Str., Hull, Qu. - L.P.: Dir. Gen.: M. A. Gratton. - D. Prgr.: French: W. 11.00-04.15. Sun. 13.55-05.00. - V. by letter.
- 54) London Free Press Printing Co. Ltd., 442-6 Richmond Str., London, O. - D. Prgr.: 24 h. - V. by letter.
- 55) Kawartha Broadc. Co. Ltd., P. O. Box 657, Peterborough, O. - D. Prgr.: 11.00 (Sun. 13.40)-05.10. - V. by QSL-card. R.p.
- 56) W. Communications Ltd., 2060 Halifax Str., Regina, Sas. - D. Prgr.: W. 12.30-08.00. Sun. 14.00-07.00.
- 57) R. NW. Ltd., Windsor Hotel, 227 Colombia Str., New Westminster, B.C. - D. Prgr.: 24 h.
- 58) Maisonneuve Broadc. Corp. Ltd., Montreal. - L.P.: Pres.: G. Stirling. - D. Prgr.: 24 h.
- 59) Rogers R. Broadc. Co., 37 Bloor Str. W., Toronto 5, O. - L.P.: Pres.: W. C. Thornton. Cran. Mgr.: W. McKnight. Dir. Tec.: C. Eastwood. - D. Prgr.: M.w.: 24 h. - On 6070 kc/s: W. 10.30-06.05. Sun. 13.00-05.05. - N., Wrp.: every h. on the h. exc. 17.00, 24.00. - ANN.: "This is CFRB Toronto". - V. by QSL-card.
- 60) Northern Broadc. Corp. Ltd., 9910-99th Str., Grande Prairie, A. - D. Prgr.: 13.00 (Sun. 15.00)-07.00.
- 61) R. CHUM, 1330 Young St., Toronto 7, O. - D. Prgr.: 24 h.
- 62) R. St. CKSB, 607 Langevin St., St. Boniface, M. - L.P.: Gen. Mgr.: R. Couture. Dir. Tec.: R. Brodeur. - D. Prgr.: French: 12.55-06.15.
- 63) Hyland Radio-TV Ltd., 119 East Str., Sault Ste. Marie, O.
- 64) The Voice of the Prairies Ltd., Broadcast House, Calgary, Al. - L.P.: Dir. Gen.: H. G. Love. Dir. Tec.: R. W. Lamb. - D. Prgr.: 24 h. exc. Mo. 07.05-13.00. N.: 15.00, 19.00, 05.00 (plus reports on the h.) - ANN.: "Dial Ten Sixty CFCN, Calgary". - V. by QSL-card. Prgr. sched. on request.
- 65) C.J.L.R. Inc., Quebec, P. Q. - L.P.: Pres. & Gen. Mgr.: J. La Roche. - D. Prgr.: D. 11.00-07.00.
- 66) Sarnia Broadc. Co. Ltd., 148½ Front Str. N., Sarnia, O. - L.P.: Dir. Gen.: C. Irvine. Dir. Tec.: R. F. Cooke. - D. Prgr.: 11.00-06.00. - V. by letter and QSL-card.
- 67) CHED Ltd., 10006-107th Str., Edmonton, Al. - D. Prgr.: 24 h.
- 68) Southern Alberta Broadc. Ltd., Lethbridge, Al. - L.P.: Gen. Mgr.: J. Budd. - D. Prgr.: 24 h.
- 69) CKWX Ltd., 1275 Burrard Str., Vancouver, B.C. - L.P.: St. Mgr.: W. Speers. Dir. Tec.: C. R. Polith. - D. Prgr.: 24 h. N.: every h. and half h. - ANN.: "CKWX and CKFX, Vancouver". - V. by letter.
- 70) CKXL Ltd., 210-9th Ave. W., Calgary, Al. - L.P.: Pres. & Gen. Mgr.: A. R. MacKenzie. - D. Prgr.: W. 13.00-08.00. Sun. 13.00-07.00.
- 71) N. Brunswick Broadc. Co., 85 Germain Str., St. John, N.B. - D. Prgr.: W. 10.00-05.00. Sun. 11.55-04.15.
- 72) Wentworth R. Broadc. Co. Ltd., 73 Garfield St. South, Hamilton, O. - D. Prgr.: W. 10.00-06.00. Sun. 11.55-05.11.
- 73) Western Manitoba Broadcasters Ltd., 2940 Victoria Ave., Brandon, M. - D. Prgr.: W. 12.00-07.00. Sun. 14.00-06.00.
- 74) C.K.T.R. (1958) Limitée, 543, rue Gervais, Trois-Rivières, Qu. - L.P.: Gen. Mgr.: J. Rufiane. - D. Prgr.: Mo.-Fri. 10.55-05.30. Sat. 10.55-07.00. Sun. 13.55-05.30.
- 75) Lethbridge Broadc. Ltd., 1015 Third Ave. S., Lethbridge, A. - D. Prgr.: W. 13.00-08.00. Sun. 14.30-07.00.
- 76) Moncton Broadc. Ltd., Knights of Pythias Bldg., Moncton, N.B. - D. Prgr.: W. 10.00-05.00 (Sat. 06.00). Sun. 12.00-04.15.
- 77) Capital Broadc. System Ltd., Hotel Douglas, Victoria, B.C. - D. Prgr.: W. 24 h. Sun. 15.00-08.00. - V. by letter.
- 78) La Cie. de Radiodiffusion de Matane Ltée., 4 St. Sacrament Str., Matane, Qu. - D. Prgr.: 12.00 (Sun. 13.55)-05.00. - V. by letter.
- 79) Sunwapta Broadc. Co. Ltd., 109 CRP Bldg., Edmonton, A. - L.P.: Dir. Gen.: G. R. A. Rice. - D. Prgr.: 24 h. - V. by letter.
- 80) Cape Broadcasters Ltd. R. Bldg., Sydney, N.S. Tel.: 5596. - L.P.: Gen. Mgr.: N. Nathanson. Dir. Tec.: A. Vernon. - D. Prgr.: 10.50-04.00. N.: 10.50, 11.25, 11.55, 12.40, 13.00, 14.00, 16.15, 17.00, 19.00, 21.30, 22.15, 23.20, 00.55, 04.00. - V. by QSL-card.
- 81) Fraser Valley Broadcasters Ltd., 50 Yale Road East, Chilliwack, B.C. - L.P.: J. M. MacLachlin. - D. Prgr.: W. 14.00-08.01. Sun. 15.00-07.00.
- 82) CJMS Radio-Montreal Ltd., 1700, rue Berri, Montreal, Qu. -

- L.P.: Dir. Gen.: R. Crépault. Dir. Tec.: R. Demers. - D. Prgr.: French: 24 h. - V. by letter.
- 83) CKCV Ltée., 978 St. John Str., Quebec. - D. Prgr.: W. 11.00-05.00. Sun. 13.00-05.00.
- 84) C.H.I.Q. Limited, Hamilton, O. - D. Prgr.: 24 h.
- 85) Southern Manitoba Broadc. Co. Ltd., Box 1000, Altona, Al. - L.P.: Dir. Gen.: W. R. Kroeker. Dir. Tec.: J. J. Pauls. - D. Prgr.: Daytime only. - V. by QSL-card and letter.
- 86) London Broadcasters Ltd., 343 Richmond Str., London, O. - L.P.: Gen. Mgr.: D. M. E. Hamilton. Dir. Tec.: W. E. Post. - D. Prgr.: W. 24 h. exc. Mo. 05.05-10.45. - V. by letter.
- 87) CKOY Ltd., 635 Richmond Str., Ottawa, O. - D. Prgr.: 24 h.
- 88) Vancouver Broadc. Associates Ltd., Vancouver, B.C. - L.P.: Pres. & Mgr. Dir.: W. E. Bellman. - D. Prgr.: 14.00-09.00.
- 89) The Lakeland Broadc. Co. Ltd., 360 King Str. West, Oshawa, O. - L.P.: Dir. Gen.: G. G. Garrison. - D. Prgr.: W. 11.00-06.05. Sun. 13.00-05.05. - V. by letter.
- 90) St. Lawrence Broadc. Co. Ltd., 99 Brook Str., Kingston, O. - D. Prgr.: W. 24 h. Sun. 12.30-05.00.
- 91) The Telephone City Broadcast Ltd., 525 Colborne St. East, Brantford, O. - D. Prgr.: 10.30 (Sun. 11.30)-06.00.
- 92) R. CFUN Ltd., 1900 West 4th Ave., Vancouver 9, B.C. - D. Prgr.: 24 h.
- 93) Saskatoon Community Broadc. Ltd., Empire Hotel, Saskatoon, Sas. - D. Prgr.: W. 13.00-08.00. Sun. 14.00-07.00.
- 94) Foster Hewitt Broadc. Ltd., 1 Greenville Str., Toronto, O. - L.P.: Pres.: F. Hewitt. - D. Prgr.: 24 h.
- 95) Northwestern Broadcasting Co. Ltd., 1721 Main Str., No. Battleford, Sa. - D. Prgr.: W. 13.00-08.05. Sat. 13.00-09.05. Sun. 14.30-17.05.
- 96) R. Beauce Inc., 30, rue Saint Antoine, Ville Saint-Georges, Cte. de Ceauce, P. Q. - L.P.: Man. Dir.: C. A. Thibaudeau. - D. Prgr.: W. 12.00-04.00. Sun. 16.00-04.10.
- 97) CJOY Limited, 50 Wyndham St., Guelph, O. - D. Prgr.: 11.00-06.00.
- 98) Radio CFOR, 241 West Str. No., Orillia, O. - L.P.: Gen. Mgr.: G. E. Smith. Dir. Tec.: P. Rowe. - D. Prgr.: 11.25-04.30. - V. by letter.
- 99) Standard Broadcasting Co. Ltd., Malaspina Hotel, Nanaimo, B.C. - L.P.: Man. Dir.: C. J. Rudd. Dir. Tec.: J. Inglis. - D. Prgr.: 14.00-09.00. Sun. 16.00-08.00. - V. by QSL-card.
- 100) CHVC Ltd., 1475 River Rd., Niagara Falls, O. - L.P.: Mgr.: A. W. Blakely. Dir. Tec.: K. Lee. - D. Prgr.: W. 10.45-06.00. Sun. 12.45-04.15. - V. by letter. R.p.

★ GREENLAND (Danish Territory) ★

L.T.: Angmagssalik area: GMT + 2 h. W. Coast: GMT + 3 h. Thule area: GMT + 4 h. - Pr.L.: Greenlandic, Danish. - Po.: 32.000. - Revrs.: 5.000. E.C.: Godthaab: 220/390 V, A.C., 50 c/s.

GRÖNLÄNDS RADIOFONI (Go.)

ADDR.: Grönlands Radiofoni, Godthåb. Cable: Radiofoni. - L.P.: Dir. Broadc.: Fr. Nielsen.

HOME SCE.: W.: 10.30-11.20, 15.00-16.05, 20.30-02.05. Sun.: 11.30-12.30, 15.00-02.05.

Godthåb 570 kc/s 526 m 25 kW - Godhavn 650 kc/s 461.5 m 5 kW Frederikshåb 820 kc/s 365.9 m 5 kW - Godthåb FM 97.2 mc/s 0.25 kW N.: W.: 15.30, 21.40, 22.00. - Wrp.: W.: 10.40, 16.00, 21.15, 02.00. Sun.: 12.25, 16.25, 22.30, 02.00. - Prgr.s in Norwegian: Sun. 19.00-20.00 (only 1/6-1/10). - In Faroese: 20.00-21.00 (only 1/6-1/10) - For Schools: Mo., Tues., Wed. 13.00-14.30, 16.10-16.40.

ANN.: "Kalátdit-nunáta ráðjua - Grönlands radio..." - V. by letter.

INT.-SIG.: played on celeste.



★ MEXICO ★

L.T.: GMT + 6 h. (Mexico generally); GMT + 7 h. (Sonora, Sinaloa, Nayarit and Lower Cal.); GMT + 8 h. (Upper Cal.). - Pr.L.: Spanish. - Po.: 34,625,000. - Revrs.: 4,500,000. - E.C.: 110/125/220 V, A.C., 50/60 c/s.

DIRECCION GENERAL DE TELECOMUNICACIONES,

Departamento de Radiodiffusion. ADDR.: Col. Narvarte, Mexico, D.F. - L.P.: Dir. Gen.: Eng. E. Diaz Gutierrez.

STATIONS: All st.'s comm. exc. 1), 2), 6), 12), 15), 21), 184) (Cultural); st.'s 17) and 79) (Cultural, commercial).

Short Waves: Call: XE—. *) = inactive.

Call	kc/s	m kW	m.w.	Name and h. of tr.
1) SE	2380	126.0	0.35	Sria de Educacion Pública
2) JG	4820	62.24	0.2	630 Emis. Casa de la Cultura; Mo. 04.00-05.00
3) OI	6010	49.92	2.5	1000 R. Mil: 12.00-07.00

Mexico

Call	kc/s	m	kW	m.w.	Name and h. of tr.
4) UW	6020	49.88	0.25	920	EI Eco de Sotavento: 11.30-06.00
5) KW	*6030	49.75	0.5	1300	R. Continente
6) XQOC	6045	49.63	0.1	1460	R. Universidad: see below
7) XG	6065	49.46	5	730	R. dif. XEX/XERPM: 11.45-06.00
8) CMT	6090	49.26	1	1450	R. dif. XECM/XECMT: 14.00-03.00
9) QM	6105	49.14	0.25	1240	Sistema R. Yucatan: 12.00-06.00
10) RCM*	*6130	48.94	0.1	1110	R. Central de Mexico
11) WW	*6160	48.66	10	900	La Voz de la America Latina
12) XA	*6175	48.58	0.1	1060	R. Gobernacion
11) WW	9515	31.53	10	900	La Voz de la America Latina: 11.45-06.00
13) FT	9545	31.43	0.25	1250	La Voz de Veracruz: 11.30-05.00
14) TT	9555	31.40	0.5	1350	La Hora Exacta: 13.00-06.00
15) YU	9600	31.25	1	860	Universidad Nac. de Mexico: W. 19.00-05.00, Sun. 16.00-04.00
16) BT	*9625	31.17	10	1220	R. dif. XEB/XEBT
16) QQ	*9680	30.99	1	940	R. dif. XEQ/XEQQ
17) NN	*11780	25.47	0.5	690	R. XEN/XENN
18) BR	11820	25.38	0.15	920	El Heraldo de Sonora: 13.00-05.00
19) LZZ*	*11860	25.29	1	1440	R. Novedades
20) HH	11880	25.25	5	1500	R. dif. Comerciales: 12.00-06.00
7) XE	*11900	25.21	1	730	R. dif. XEX/XERPM
11) WW	*15160	19.79	10	900	La Voz de la America Latina
21) SC	15205	19.73	5	1590	R. dif. XEMC/XESC: 12.00-07.00 irr.
22) RU	*15300	19.60	0.25	1310	Universidad de Chih.

Medium Waves: Call: XE—, °)=Short wave. °)=also FM. °)=relay st. °)=time signal st. D=daytime operation only (12.30-02.00 approx.). Stations printed in fat types are in Mexico City.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
11) WA	540°	150d	70) SU	790°	1D	113) D	1050	10/1
23) KL	550	1/0.25	71) VA	790	5/0.2	114) G	1050	150
24) QW	550	5d	72) AN	800	1D	12) DF	°1060	50d
25) AR	570	1/0.1	73) LO	800	150	115) GY	1080	10/0.5
26) LQ	570	5/1	74) FW	810	50d	116) OD	1090	1d
27) NZ	570	1/0.25	74a) RT	810	1D	117) RB	1090	50d
28) OA	570	5/0.25	75) KG	820	1D	118) WL	1090	2.5D
29) TJ	570	1/0.1	76) SB	820	1D	10) RCN	°1110	50d
30) VX	570	1/0.25	77) UX	820	5D	119) TR	1120	1D
31) AV	580°	5/1	78) LA	830°	10/5d	79) AD	1150	1/0.1
32) DZ	580	1/0.45	79) BA	840	1D	120) GE	1150	1D
33) FI	580	5/0.25	81) TQ	850	10d	69) JP	1150	10d
34) HP	580	1/0.15	61) WI	860	1D	121) JS	1150	1/0.5
35) MU	580°	5/0.25	82) DU	860	1/0.5	122) XZ	1150	1/0.2
36) UE	580	1/0.1	83) MO	860	5	123) GR	1160	1D
37) E	590	1/0.15	84) NW	860	1/0.25	124) RT	1170	5D
38) FD	590	5/0.25	15) UN	°860°	5	125) FR	1180	10/0.25
39) HQ	590	1/0.5	11) W	°900°	250	11) WK	°1190	50
40) PH	590	5	85) HO	910°	1/0.25	16) B	°1220	100
41) BB	600	5/1	4) U	°920	5/0.5	126) S	1240	1/0.25
42) DN	600°	1	18) BH	920°	5/1	127) BN	1240	1/0.25
43) BX	610°	5/0.5	86) BM	920	5/1	128) BQ	1240	1/0.25
44) CV	610	1/0.25	87) CQ	920	5/0.1	9) MQ	°1240	1/0.25
45) GS	610	1/0.5	88) MJ	920	1/0.25	129) RZ	1240	1/0.25
46) JA	610	1/0.5	89) OK	920°	1/0.25	130) DK	1250	1
47) KZ	610	1/0.5	16) Q	°940°	150/50	131) DL	1250	1/0.5
48) UF	610	5/1	90) WV	940°	1/0.1	132) JX	1250	1/0.1
49) BU	620	5/0.25	91) GM	950	3.5d	133) SJ	1250	1/0.5
50) NK	620	10/5	92) YJ	950	1/0.1	13) TF	°1250	0.5
51) FB	630	5/1d	93) K	960	5/1	134) L	1260	10d
52) FU	630	2/0.75	94) CS	960	1/0.1	135) R	1260	1/0.25
2) JB	°630°	0.5	95) GB	960	1/0.5	136) MF	1260	1/0.25
53) TK	630	1/0.25	96) KS	960	2/0.1	137) AX	1270	5/0.5
54) TS	630	1/0.5	97) HK	960	1/0.25	9) MH	1270	1/0.5
55) ZM	650	5	98) J	970	10/5	138) PV	1270	1/0.25
56) Z	660	2	99) O	970°	1	139) ZU	1270	1/0.25
7) RPM660°	10/5		100) CJ	970	1/0.25	140) AG	1280	1
57) FJ	680	1d	16) DF	970°	5/1	141) AW	1280	5/0.5
58) KQ	680	5/0.5	101) OW	970	1/0.25	142) BW	1280	1/0.6
59) LG	680	10d	102) VT	970	5/0.4	143) GJ	1280	1/0.25
17) N	°690°	20	103) KE	980	1/0.25	144) AP	1290	1/0.1
60) TRA	690	50d	104) LC	980	5/0.2	145) DA	1290	1
61) DV	700	1D	105) NR	980	5/0.5	146) LE	1300	1/0.15
62) BL	710°	5/1d	106) TU	980	5/1	5) SF	°1300	0.5
63) ON	710	1	107) XT	980	1	147) XW	1300	1/0.1
7) X	°730°	50	108) T	°950	50d	148) AM	1310	1/0.25
64) ZZ	760	5D	109) BC	990	1/0.1	149) BP	1310	5/0.25
11) WB	°760°	50	110) CL	990	5	150) FH	1310	1D
65) BI	790	5/0.25	3) OY	°1000°	10	151) HV	1310	1
66) FE	790	1/0.5	79) HL	1010	10/5	152) PO	1310	1/0.25
67) GZ	790	1/0.25	111) TX	1010	1/0.25	22) RU	°1310	1/0.25
68) NT	790	5/0.75	112) WS	1010	5/0.25	79) TIA	1310	1/0.25
69) RC	790°	5/1	69) QR	1030	10/1	153) AI	1320	1/0.5

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
154) RJ	1320°	5/0.5	180) TL	1390	5/1	6) XQ	°1460	1/0.25
155) BO	1330	1d	181) I	1400	1/0.25	203) YC	1460	1
156) FC	1330	1	182) JL	1400	1/0.25	204) AU	1470	5
157) RP	1330°	1/0.1	183) TO	1400°	1/0.25	205) RL	1470	1/0.25
158) WQ	1330	1D	184) XB	1400	0.5/0.25	206) SM	1470	10/5
159) CW	1340	1/0.2	185) AS	1410	1/0.25	207) PR	1480	10/0.5
160) JK	1340	1/0.25	3) BS	1410°	5/1	208) NJ	1480	1D
161) LW	1340	1/0.25	186) CF	1410	1/0.5	209) DR	1490	1/0.25
25) NV	1340°	1/0.25	187) XJ	1410	1/0.5	210) GT	1490	1/0.25
162) OM	1340	1/0.25	188) F	1420°	5/0.5	211) OB	1490	1/0.25
14) OK	°1350°	1	51) H	1420	1	212) RA	1490	1/0.25
164) TB	1350	5/0.5	189) EW	1420	1d	20) RH	°1500	20d
165) TM	1350	1	190) WE	1420	5/0.17	213) GD	1520	1D
166) Y	1360	1/0.17	191) XX	1420	2	214) NC	1540	1/0.25
167) KF	1360	1/0.5	192) CZ	1430	1	215) BG	1550	1
168) SA	1360	1/0.5	193) LL	1430	5/0.25	216) JJ	1550	10
169) A	1370	1	194) OX	1430°	5/0.5	217) NU	1550	5d
170) HF	1370	5	195) WD	1430	2/0.15	218) RX	1560	1/0.25
171) MR	1370°	1/0.5	19) LZ	°1440	5/1	219) RF	1570	250
172) XL	1370	10/0.1	8) CM	°1450	1/0.25	220) DM	1580	50
40) CO	1380	5	196) JD	1450	1/0.25	221) QL	1580	1/0.5
173) GW	1380	1	197) NA	1450	1/0.25	222) NQ	1580	10/1
174) RK	1380	1/0.5	198) PH	1450	1/0.25	223) NH	1590	1/0.2
176) M	1390	1/0.5	199) VH	1450°	1/0.25	21) MC	°1590	10/5
177) P	1390	1/0.5	200) HX	1460	1/0.25	224) AE	1600	1
178) OR	1390	1	201) JI	1460	1D	225) CW	1600	1/0.25
179) SP	1390	1/0.25	202) LX	1460	10d			

+ 105 low power st.'s not mentioned.

FM: 49 stations.

PRINCIPAL BROADCASTING NETWORKS

A) RADIO PROGRAMAS DE MEXICO (with 100 affiliated stations). - ADDR.: Bucareli 109, 4° piso, Mexico, D.F. - L.P.: Pres.: C. Serna Martinez. - OWNED AND OPERATED STATIONS: XERPM 660 kc/s, Mexico City; XEDK 1250 kc/s, Guadalajara, Jal.; XEMR 1370 kc/s & XENL 860 kc/s, Monterrey, N.L.

B) RADIO CADENA NACIONAL (with 45 affiliated stations). - ADDR.: Vallarta 1, 6° piso, Mexico, D.F. Tel.: 469648. - OWNED AND OPERATED STATION: XERCN 1110 kc/s, Mexico City. The Mexican Government requires all st.'s to carry "La Hora Nacional del Gobierno Mexicano" every Mo. 04.00-05.00.

Short Waves:

- 1) Sria de Educación Pública, Dirección de Asuntos Indígenas, Sección Administrativa, Mexico D.F.
- 2) Gobierno del Estado de Jalisco, Casa de la Cultura, Guadalajara, Jal. - D. PRGR.: Mo. 04.00-05.00 on all frequencies; test transmissions: D. 17.00-19.00 & 23.00-01.00 on 630 kc/s and 96.1 mc/s. - ANN.: "Emisoras de la casa de la Cultura".
- 3) Ayuntamiento 101, Mexico D.F. - L.P.: Dir. Gen.: Lic. F. G. Salas F. Mgr.: F. Ibarra L. - D. PRGR.: N.: Every h. on the h. and 13.30, 14.30. - ANN.: "R. Mil, en los mil kc/s de su radio con música a su gusto". - V. by QSL-card or letter. - XEBS/XEBS-FM 1410 kc/s/89.5 mc/s: Ci. Satellite.
- 4) Av. Independencia 230, Veracruz, Ver. - L.P.: Dir. Gen. & Dir. Tec.: F. Pazos S. - ANN.: "El Eco de Sotavento desde Veracruz". - V. by letter. Re. in Sp.
- 5) Allende 29, Morelia, Mich. - L.P.: Dir.: J. Martinez R.
- 6) San Luis Potosi, SLP. - D. PRGR.: W. 16.00-05.00, Sun. 13.00-01.00.
- 7) Dr. Rio de la Loza 196, Mexico, D.F. - L.P.: Dir. Gen.: M. Balli. Dir. Tec.: J. de la Herrán. - D. PRGR.: XEX: 12.00-06.00. - N.: 12.00, 12.25, 14.00, 20.00, 20.40, 00.30, 00.45, 04.15, 05.00, 05.45. - ANN.: "Desde Mexico, XEX en el 730 de su radio, canal internacional y sus estaciones en León, Veracruz, Monterrey, Saltillo, Torreón, Guadalajara y San Luis Potosi". On XERPM: "Esta es la 660, su estación deportiva y musical" - XEX relay stations (all on 730 kc/s): León 200 W, Veracruz 150 kW and 5 st.'s of 1 kW in Monterrey, Saltillo, Torreón, Guadalajara and San Luis Potosi. FM: 101.7, 102.8, 105.1 mc/s. - V. by QSL-card or letter.
- 8) Apt. Postal 79, Ci. Mante, Tams. - L.P.: Dir. Gen.: R. Lopez Mendez. Dir. Tec.: L. Fernandez C. - D. PRGR.: N.: 21.00. - ANN.: "Escuchan ustedes a XECM y XECMT por una vida mejor en el Campo de Mexico operando simultaneamente, desde Ciudad Mante, Tamaulipas, Mexico". - V. by letter.
- 9) Apt. Postal 217, Merida, Yuc. - L.P.: Dir. Gen.: R. Dominguez L., A. A. Garcia B. Mgr.: A. Iglesias V. Dir. Tec.: H. Padron M. - D. PRGR.: N.: every h. on the h. - V. by letter. Re. in Sp. - XEMH: R. Merida, Ca. 58 No. 493, Merida, Yuc.
- 10) Apt. Postal 7892, Mexico 4, D.F. - L.P.: Dir. Gen.: R. Cutberto Navarro, Mgr.: E. Nassar Jr. Dir. Tec.: E. Diaz G. - D. PRGR.: M.w.: 12.00-06.00, N.: every h. on the h. - ANN.: "Aqui Mexico... XERCN, Estacion Piloto de Radio Cadena Nacional...". - V. by letter. Re. in E. Sp. - FM: 88.4 mc/s.
- 11) Cadena R.dif. Mexicana S.A., Ayuntamiento 54, Mexico D.F. - L.P.: Pres.: E. Azcarraga V. Dir. Gen.: E. Azcarraga M. Dir. Tec.: J. de la Herrán. - D. PRGR.: XEW: 11.45-06.30, Rel. st.'s: XEWV

- (s.w.), XEWA (San Luis Potosí, XEWB Veracruz, XEWK Guadalajara, XEWM Monterrey: 12.00-05.00. N.: 12.00, 12.25, 14.00, 14.40, 18.35, 20.30, 00.30, 01.40, 04.45, 06.00. - ANN.: "XEW y XEWV La Voz de la América Latina desde México". - FM: XEW-FM: 96.9 mc/s. Relay st.: XEZA-FM 92.2 mc/s (Zamorano, Mex.).
- 12) Ca. de Bucareli, Mexico D.F.
- 13) Apt. Postal 74, Veracruz, Ver. - L.P.: Dir.: I. Díaz de Licona. - ANN.: "La Voz de Veracruz". - V. by QSL-card.
- 14) Dolores 10, Primer Piso, Mexico D.F. - L.P.: Dir. Gen.: G. Morales B. Mgr.: G. Morales N. Dir. Tec.: F. Gómez B. - D. PRGR.: m.w. 24 h. - ANN.: "Emisoras de la Hora Exacta, proporcionando la Hora Exacta cada minuto durante las 24 horas de día. 55 segundos de comerciales y 5 segundos Hora Exacta cada minuto - con señales audiles - timbre-sincronizadas al Observatorio Astronómico Nacional". - V. by QSL-card or letter. Re. in Sp, E, G, F.
- 15) Oficinas Técnicas, Ci. Universitaria, Mexico 20, D.F. Te.: 281157. - L.P.: Dir. Gen.: R. Lopez M. Dir. Tec.: O. Velazquez G. - D. PRGR.: "Panorama Universal de la Cultura". W. 05.00. - ANN.: "Esta es R. Universidad Nacional de México transmitiendo simultáneamente en sus frecuencias de 860 kc/s de onda larga, 9600 kc/s de onda corta, Banda Internacional de 31.25 m, y 96.1 mc/s de FM, desde sus estudios en la Ciudad Universitaria de la capital mexicana". - V. by letter. Re. in Sp, F or E.
- 16) Dr. Río de la Loza 182, 2º piso, Mexico D.F. - D. PRGR.: XEB: 24 h. XEQ/XEDF: 12.00-06.00. - N.: every h. on the h. On XEQ special music and news prgr. at 05.00-06.00. - ANN.: On XEB: "En el 1220 de su radio, este es XEB" or "Desde México, XEB en el 1220 de su radio, canal libre internacional". On XEQ: "XEQ desde México". - V. by QSL-card or letter. - XEDF-FM: 105.2 mc/s.
- 17) Zacatecas 219, Condom. Yucatan, Mexico D.F. - FM: 99.7 mc/s. 18) P.O. Box 68, Hermosillo, Son. - L.P.: Dir.: J. R. Agraz N. - D. PRGR.: N.: every h. on the h. - ANN.: "XEBH, XEBR El Heraldo de Sonora desde Hermosillo". - V. by letter. - FM: 90.2 mc/s. - F.P.L.: s.w. 0.5 kW.
- 19) Artículo 123 No. 90, Mexico D.F. (see also 69).
- 20) A.R.S.E S.A., Quemada 40, Col. Narvarte, Mexico D.F. - D. PRGR.: N.: 14.15, 20.15, 00.15, 04.00.
- 21) Calzada a Zochimilco 5019, km 17, Parada Río Blanco, Mexico D.F.
- 22) Domicilio Conocido, Chihuahua, Chih.

Medium Waves:

- 23) R.dif. XEKL, Zamora 12, Jalapa, Ver.
- 24) R. Mexicana de Mérida, Ca. 64 No. 526, Mérida, Yuc.
- 25) R. Fiesta (XEAR) & R. Alegria (XENV), Ave. Madero Ote. 1114, 20º piso, Monterrey, N.L. - D. PRGR.: 12.00-08.00 - XENV-FM: 90 mc/s. - 26) R.dif. XELQ, Morelos Nte 68, Morelia, Mich. - 27) R. Impulsora de Culiacán, Blvd. 50 Oriente, Culiacán, Sin.
- 28) R. Oaxaca, Carlos Bustamante 17, Oaxaca, Oax.
- 29) R.dif. XETJ, Av. Lerdo de Tejada 1564, Torreón, Coah.
- 30) R.dif. XEVX, Morelos 58, Comcalco, Tab.
- 31) R. Guadalajara, Av. Vallarta 1458, Guadalajara, Jal. Te.: 4-73-31. L.P.: Dir. Gen.: M. López Díaz. Sales Dir.: S. Guerrero G. Dir. Tec.: G. Jimenez M. - D. PRGR.: 12.00-08.00 in Spanish and English. N.: From 14.00-04.00 every h. on the h. - ANN.: "XEAV R. Guadalajara canal 58". - V. by QSL-card or letter. - FM: 100.3 mc/s 1 kW.
- 32) R.dif. XEDZ, Ca. 9 No. 58, Cordoba, Ver.
- 33) Pregonero del Edo. de Chihuahua, Libertad 1302, Chihuahua.
- 34) R.dif. XEPH, Ca. 14 No. 150, entre Hidalgo y Juárez, Ci. Victoria, Tams. - 35) R.dif. XEMU, Carranza 3, Piedras Negras, Coah. - FM: 88.4 mc/s.
- 36) La Voz de Chiapas, Ca. Central 6, Tuxtla Gutiérrez, Chis.
- 37) R.dif. XEE, 20 de Noviembre 122 Pte., Durango, Dgo.
- 38) R.dif. XEFD, Carretera a Matamoros, Río Bravo, Tams.
- 39) R. Hermosillo, Juárez Esquina con Serdán, Hermosillo, Son.
- 40) XEPH: R. 590 and XECO: R. Eco: Insurgentes Sur 1870, Mexico D.F. - L.P.: Dir. Gen.: Lic. E. Guillermo Salas. Dir. Tec.: S. Carrasco Suarez. - D. PRGR.: R. Eco: 13.00-06.00. English: 13.30-14.30(W), 01.00-03.15 (D. exc. Sun., Mo.); French: 04.15-04.45 (Tues., Thurs., Sat.); German: 00.15-01.00 (Tues.-Sat.); Italian: 03.15-04.15 (Tues.-Sat.). R. 590: 13.00-07.00. - ANN.: "R. 590 y R. Eco".
- 41) R. Acapulco, Morelos 3, Acapulco, Gro.
- 42) Dif. del Norte, Av. Juárez 1465 Pte., Torreón, Coah. - FM: 88.1 mc/s. - 43) R.dif. Coahuila, Av. Carranza 168, Sabinas, Coah. - FM: 88.1 mc/s.
- 44) R.dif. XECV, Francisco I. Madero 35, Ci. Valles, S.L.P.
- 45) R. Guasave, Zaragoza 45 Altos, Guasave, Sin.
- 46) R.dif. XEJA, Pasaje Tanos, Ca. Enriquez, Jalapa, Ver.
- 47) La Voz del Istmo de Tehuantepec, Domicilio Conocido, Tehuantepec, Oax.
- 48) R.dif. XEUF, Portal Carrillo 8, Edif. Silva, Uruapan, Mich.
- 49) R.dif. XEBU, Ojinaga 118, Chihuahua, Chih.
- 50) R. 620, Balderas 32, 4º Piso, Mexico D.F. - D. PRGR.: French: W. 03.00.
- 51) Emis. Incorporadas de Monterrey, 5 de Mayo Ote. 112, Monterrey, - D. PRGR.: 12.00-06.00. N.: On XEH 5 min. before each h. up to 03.55. On XEFB every h. on the h. up to 04.00. Special news prgrs. at 12.00, 13.00, 14.00, 20.00 & 04.00.
- 52) R.dif. XEFU, Hidalgo 36, Cosamaloapan, Ver.
- 53) R. Emis. de Occidente, Av. Angel Flores 42, Mazatlán, Sin.
- 54) R.dif. XETS, 4a Ca. Oriente 44, Tapachula, Chis.
- 55) La Voz del Comercio de Zamora, 5 de Mayo 30, Zamora, Mich.
- 56) La Voz de la Península, Ca. 56 No. 508, Mérida, Yuc.
- 57) R.dif. XEFJ, Benito Juárez 86, Teziutlán, Pue.
- 58) R. Soconusco, Domicilio Conocido, Tapachula, Chis.
- 59) R. Impulsora del Centro, Pasaje de las Tullerías 1, León.
- 60) R.dif. del Pacífico, Esq. Lerma y Bravo, Tijuana.
- 61) R.dif. XEDV & XEWI, Ave. Juárez 330, Desp. 207, Guadalajara, Jal. - D. PRGR.: N.: every half h.
- 62) R.dif. XEBL, Boulevard 50 Ote., Culiacán, Sin. - FM: 88.2 mc/s.
- 63) R.dif. XEON, Jardín Sto. Domingo, Tuxtla Gutiérrez, Chis.
- 64) R.dif. XEZZ, Tonalá, Jal. (or Av. Juárez 595-2, Guadalajara).
- 65) R.dif. XEBI, Madero 92, Aguascalientes, Ags.
- 66) R.dif. XEFE, Aldama 2611, Nuevo Laredo, Tams.
- 67) R.dif. XEGZ, Apt. Postal 6, Ci. Lerdo, Dgo.
- 68) R.dif. XENT, Apt. Postal 105, Col. del Sol, La Paz, B.C.
- 69) R. Exitos (XERC), R. Centro (XEOR), R. America (XHFM), R. Variedades (XEJP), Artículo 123, No. 90, Mexico D.F. - D. PRGR.: 12.30-08.30. - N.: every h. on the h. - FM: XEJP-FM 88.8 mc/s, XEQ-FM 107.3 mc/s, XERC-FM 97.7 mc/s, XHFM-FM: 94.1 mc/s. These st.'s are affiliated with 19).
- 70) R.dif. XESU, Mina y Zuazua 202, Mexicali, B.C. - FM: 88.1 mc/s.
- 71) R. Tabasco, Villahermosa, Tab.
- 72) R. Ocotlán, Niños Heroes 245, Ocotlán, Jal.
- 73) R.dif. de P. Negras, Ca. 21 y Letra "K", Ci. Juárez, Chih.
- 74) R.dif. XEFW, Madero 416 Ote, Tampico, Tams. - D. PRGR.: 12.00-04.00 (Sat. & Sun. 05.10 approx.).
- 74a) R.dif. XERI, Reynosa, Tams.
- 75) R. Fortín, Apt. Postal 4, Fortín de las Flores, Ver.
- 76) R.dif. XESB, Hidalgo y Angela Peralta, Santa Bárbara, Chih.
- 77) R.dif. XEUX, Hidalgo y Progreso, Tuxpan, Nayarit.
- 78) R. Metropolitana, Paseo de la Reforma 139, Mexico D.F. - D. PRGR.: English: N.: 13.00, 14.30, 20.30, 00.45, 06.00. - FM: 98.5 mc/s.
- 79) R. Centro de Jalisco, Pino Suárez 183, Guadalajara, Jal. (XEBA = R. Jalisciense; XEHL = R. Internacional. - D. PRGR.: 12.00-08.00. English: 00.00-00.45; XEAD = La Emisora de la buena musica; XETIA = R. Tria). - XEAD-FM: 88.2 mc/s.
- 80) (see 95).
- 81) R.dif. XETO, Sur 3 No. 2, Orizaba, Ver.
- 82) R.dif. XEDU, 20 de Noviembre 105 Pte., Durango, Dgo.
- 83) R.dif. XEMO, Durango 10, Tijuana, B.C.
- 84) R.dif. XENW, Matamoros 14, Culiacán, Sin.
- 85) R.dif. XEHO, Guerrero 426, Ci. Obregón, Son. - FM: 88.3 mc/s.
- 86) R.dif. XEBM, Jardín Hidalgo 15, San Luis Potosí, S.L.P.
- 87) R. Culiacán, Escobedo 226 Pte., Culiacán, Sin.
- 88) R.dif. XEMJ, Boulevard V. Carreña 6, Piedras Negras, Coah.
- 89) R.dif. XEOK, Xicotencatl 1051, Monterrey, N.L. - FM: 88.7 mc/s.
- 90) R.dif. XEWV, Av. Madero 420, Mexicali, B.C. - FM: 89.6 mc/s.
- 91) R.dif. XEGM, Av. "G" 185, Tijuana, B.C.
- 92) Televisión Norteña, Apt. Postal 17, Nueva Rosita, Coah.
- 93) El Pregonero del Bravo, Dr. Mier 2223 Altos, Nuevo Laredo, Tam. - L.P.: Dir. Gen.: R. Villarreal M. Dir. Tec.: I. Rodríguez C. - D. PRGR.: W. 12.00-06.00, Sun. 14.00-20.00. - V. by letter.
- 94) R.dif. XECS, Zaragoza y Allende, Manzanillo, Col.
- 95) R.dif. XEGB, 3a Hidalgo 37, Coatzacoalcas, Ver.
- 96) Vocero del Norte, Aldama y Zaragoza Lado Nte., Saltillo.
- 97) R.dif. XEHK, Pedro Moreno 315 Desp. 203-205, Guadalajara, Jal.
- 98) Mexican Broadc. Co., Constitución 402, Ci. Juárez, Chih.
- 99) R.dif. El Callo, Ca. 9a 95 entre Bravo y Buatamiento, Matamoros, Tams. - FM: 88.2 mc/s.
- 100) R.dif. XECJ, 5 de Mayo 2 Altos, Apatzingan, Mich.
- 101) R.dif. XEOW, 5 de Mayo 64, Mazatlán, Sin.
- 102) R.dif. XEVT, Zaragoza Sur 3, Villahermosa, Tab.
- 103) R. Navioja, Morelos y Toledo, Navioja, Son.
- 104) R.dif. XELC, Ocampo 3, La Piedad, Mich.
- 105) R.dif. XENR, Juárez 7 Altos, Nueva Rosita, Coah.
- 106) Impulsora Moderna del Radio, Ca. Muelle y Salvador Díaz M., Tampico, Tams. - 107) Radiofónica de Nayarit, Veracruz y Emiliano Zapata Pte. 164, Tepic, Nayarit.
- 108) El Pregonero del Norte, 15 de Mayo Ote. 650, Monterrey, N.L. - D. PRGR.: N. every h. on the half h. - FM: 94 mc/s.
- 109) R. Ciudad Guzmán, Colon 52, Ci. Guzmán, Jal.
- 110) R.dif. XECL, Av. Madero 621, Mexicali, B.C.
- 111) R. Casas Grande, Av. Porfirio Díaz y Minerva 400, Nuevo Casas Grandes, Chih.
- 112) R.dif. XEWS, Rubi 57 Nte., Depto. 1, Culiacán, Sin.
- 113) R.dif. XED, Av. Zacatecas, Entre C. 7a y 8a, Mexicali, B.C.
- 114) La Voz de Norteamérica, Hidalgo 426 Ote., Monterrey, N.L. - D. PRGR.: 24 h. English: 00.30-12.00.
- 115) R.dif. XEGH, Av. Libertad 113-4, Tehuacán, Pue.

Mexico - USA

- 116) R.dif. XEOD, Rayón e Indep., Edif. Lotería Nacional, Desp. 401, Veracruz, Ver. - FM: 88.3 mc/s.
- 117) Interamericana de Radio, Edif. Calif., despacho 2, Tijuana, B.C.
- 118) R. Laredo, Matamoros y Pino Suárez, Nuevo Laredo, Tams.
- 119) R.dif. XETR, Carretera México-Laredo 29 Sur, Ci. Valles, S.L.P.
- 120) R. Comercial de Baja California, Pesajio Regio Depto. 4 y 5, Edificio Padilla, Mexicali, B.C. - FM: 88.6 mc/s.
- 121) R.dif. XEJS, Maclovio Herrera 24, Hidalgo del Parral, Chih.
- 122) R.dif. XEXZ, Jardín Hidalgo 42-"B", Zacatecas, Zac.
- 123) R. Coatepec, 16 de Septiembre 12, Coatepec, Ver.
- 124) R. Televisora Siglo XX, Av. Juárez 119 Sur, Reynosa, Tams.
- 125) R.dif. XEFR, Isabel la Católica 33-117, Mexico D.F.
- 126) R. Televisora de Tampico, Ca. Altamira 113 Pte., Tampico.
- 127) R. Delicias, Av. 4a y Ca. 4a Norte, Ci. Delicias, Chih.
- 128) R.dif. XEBQ, Casa "T" No. 142, Empalme, Son.
- 129) R. Televisora del Bajío, Edif. "Seara", León, Gto.
- 130) R.dif. XEDK, Gonzalez Ortega 380, Sector Hidalgo, Guadaluajara, Jal. - 131) R.dif. XEDL, Angel Flores 26 Ptes., Hermosillo, Son. - FM: 88.4 mc/s.
- 132) R. Emis. Querétana, Madero 18, Querétana, Oro.
- 133) R. Saltillo, Manuel Acuña Sur 102 "C", Saltillo, Coah.
- 134) Capital Broadc. System, Av. Reforma 400 Desp. 701, Mexico, D.F. - D. PRGR.: 24 h. English: 13.00, 02.00-04.00.
- 135) R. Linares, Km. 856.3 Carretera Nacional Mexico-Laredo, Linares, N.L. - 136) R.dif. XEMF, Zaragoza 158, Monclova, Coah.
- 137) R.dif. XEAX, Av. Manuel García Vigil 5, Caxaxa, Cax. - FM: 88.4 mc/s.
- 138) R.dif. XEPV, Mina 1, Papantla de Olarte, Ver.
- 139) Promotores de Radio, Madero 15, Zacapu, Mich.
- 140) La Voz de Córdoba, Av. Uno 135, Córdoba, Ver.
- 141) R.dif. XEAW, Paricutin 316 Sur, Col. Roma, Monterrey, N.L.
- 142) R. Emis. del Norte, Av. Venustiano Carranza 514, Chihuahua, Chih.
- 143) R.dif. XEGJ, Av. Juárez 171, Desp. 504, Guadalajara, Jal.
- 144) R.dif. XEAP, Sinaloa 206, Ci. Obregón, Son.
- 145) R.dif. XEDA, Dolores 10, Primer Piso, Mexico D.F.
- 146) R.dif. XELE, Muelle 304 Sur, Tampico, Tams.
- 147) R.dif. XEXW, Obregón 51 Altos, Nogales, Son.
- 148) R.dif. XEAM, Carretera Matamoros, Ci. Victoria, Matamoros, Tams. - FM: 98.1 mc/s. - 149) La Voz de la Laguna, Cepeda Sur 409, Torreón, Coah. - 150) R.dif. XEFH, Ca. 5a y Av. Panamericana, Agua Prieta, Son. - 151) R.dif. XEHV, Aquiles Serdán 126, Veracruz, Ver. - FM: 98.9 mc/s.
- 152) R. Ondas Populares, Venustiano Carranza 4-A, San Luis Potosí.
- 153) R. Aeropuerto, Frey Servando de Mier 120, Mexico D.F.
- 154) R. Mazatlán, Av. Juárez 117 Desp. 505, Mazatlán, Sin. - FM: 88.1 mc/s. - 155) La Voz del Centro, Berriozábal 8, Irapuato, Gto.
- 156) R.dif. XEFC, Ca. 64 No. 498, Mérida, Yuc.
- 157) R.dif. XERP, Alvarez Obregón y 2 de Enero, Ci. Madero, Tams. - FM: 88.5 mc/s.
- 158) R.dif. XEWQ, Hidalgo 229, Nte. Monclova, Coah.
- 159) R.dif. XECW, R. O. Castro y Allende 302, Los Mochis, Sin.
- 160) La Voz de Delicias, Av. Agricultura y Ca. 4a Nte. 401, Ci. Delicias, Chih.
- 161) R.dif. XELW, López Cotilla 769, Guadalajara, Jal.
- 162) R.dif. XEOM, Zaragoza y Corregidora, Coatzacoalcas, Ver.
- 163) (see 77).
- 164) R. Laguna, Apt. 225, Torreón, Coah. - L.P.: Dir. Gen.: C. Serna M. Dir. Tec.: A. Navarrete R. - D. PRGR.: 12.55-05.00 N.: 13.45, 20.15, 01.45, 04.30 and also every half h. - V. by letter.
- 165) R.dif. XETM, Av. Fco. I. Madero 26 Altos, Naco, Son.
- 166) R.dif. XEY, Tres Cuerras 33, Calaya, Gto.
- 167) R.dif. XEKF, Altamirano 21, Iguala, Gro.
- 168) La Voz de Sinaloa, Av. Alvaro Obregón 39 Sur, Culiacán, Sin.
- 169) R.dif. XEA, Ca. 12 No. 110, Campeche, Cam.
- 170) R.dif. Com. Sonorense, Altos Edif. Bco. Agric. Ganadero, Nogales, Son. - V. by QSL-card.
- 171) R.dif. XEMR, Ave. Madero y V. Carranza 2° piso, Desp. 232-242, Centro Comercial Santos, Monterrey, N.L. FM: 88.3 mc/s.
- 172) R.dif. XEXL, Lote 14, Colonia Norelos, Pátzcuaro, Mich.
- 173) R.dif. XEGW, 13 Hidalgo y Juárez, Ci. Victoria, Tams.
- 174) R.dif. XERK, Veracruz 609, Tepic, Nay.
- 175) (see 40).
- 176) Mexican Broadc. Co., Ojinaga 4106, Chihuahua, Chih.
- 177) R.dif. XEP, 16 de Septiembre 100 Ote., Ci. Juárez, Chih.
- 178) R.dif. El Gallo, Pedro José Méndez 154 Ote., Reynosa, Tams.
- 179) R. Impulsora de Occidente, Ca. de Pedro Loza 31, Guadalajara, Jal.
- 180) R.dif. XETL, Av. Independencia y P. Correo Viejo, Tuxpan, Ver.
- 181) R.dif. XEL, Portal Hidalgo 213, Morelia, Mich.
- 182) R.dif. XEJL, Independencia 27, Guamúchil, Sin.
- 183) R. Tiempo, Emilio Carranza 320 Ote, Tampico, Tams.
- 184) Universidad Veracruzana, Domicilio Conocido, Jalapa, Ver.
- 185) R.dif. XEAS, Mina 5037, Nuevo Laredo, Tams.
- 186) La Voz del Valle del Fuerte, Av. Obregón 204, Los Mochis, Sin.
- 187) R. Televisora Tabasqueña, Ave. Juárez 15, ult. piso, Villahermosa, Tab. - 188) R.dif. XEF, 20 de Noviembre 504, Ci. Juárez, Chih. - FM: 89.6 mc/s.
- 189) R.dif. XEEW, Sexta y Cuerrero, Matamoros, Tams.
- 190) R. Irapuato, Apt. Postal 118, Irapuato, Gto. - L.P.: Pres.: A. Zetter M. Dir. Tec.: D. Mondragon G. - D. PRGR.: 12.00-06.30. N.: 14.15, 20.45, 03.30.
- 191) R.dif. XEXX, Revolución y Octava, Tijuana, B.C.
- 192) R.dif. Mexicanas, Av. Matamoros 1038, San Luis Potosí, S.L.P.
- 193) R.dif. XELL, Av. Independencia 231, Desp. 5 y 6, Veracruz.
- 194) R.dif. XEOX, Veracruz 63 Sur, Ci. Obregón, Son. - FM: 88.1 mc/s. - 195) El Heraldito Fronterizo, Alvaro Obregón 569, Ci. Miguel Alemán.
- 196) R.dif. XEJD, Hotel Poza Rica, Ver.
- 197) R. Emis. Querétana, Madero 58, Querétana, Oro.
- 198) La Voz de Orizaba, Poniente 7 No. 57 altos, Orizaba, Ver.
- 199) R.dif. XEVH, Brecha 82 con la, Apt. Postal 66, Villa Hermosa. - FM: 88.1 mc/s.
- 200) R. Obregón, Niños Héroes 219, Ci. Obregón, Son.
- 201) R.dif. XEJT, Ave. 1a No. 409, Col. Smith, Tampico, Tams.
- 202) R.dif. XELX, Av. Revolución 194, Zitácuaro, Mich.
- 203) R.dif. XEYC, Av. 16 de Septiembre y Progreso, Ci. Juárez, Chih.
- 204) R.dif. XEAU, Av. Carranza 1638, Tijuana, B.C. - FM: 89.3 mc/s.
- 205) R.dif. XERL, 27 de Septiembre 290, Colima, Col. - 206) El Heraldito del Chocolate Abuelita, Rébsamen 241, Col. Narvarre, Mexico D.F. - 207) R.fonica de Poza Rica, Ca. 6 Nte. 2 y Av. Central Ote., Poza Rica. - 208) R.dif. XENJ, Ave. Juarez y Allende, Edif. Maracan, Desp. 309, Monterrey, N.L.
- 209) R.dif. XEDR, Av. Serdán 283 Altos, Guaymas, Son.
- 210) R. Zamora, 5 de Mayo 285 Sur, Zamora, Mich.
- 211) R. Torreón, Acuña Nte. con Narciso Mendoza, Torreón, Coah.
- 212) Red Nacional Radiomisa, Ca. Libertad 1302, Chihuahua.
- 213) R.dif. XEGD, Maclovio Herrera 79, Hidalgo del Parral, Chih.
- 214) R.dif. XENC, Tres Guerras 33, Celaya, Gto.
- 215) R.dif. XEBG, Av. "C" 225 Altos, Tijuana, B.C.
- 216) R. 155, Carrillo Puerto 6, Jalapa, Ver. - D. PRGR.: 12.00-06.00.
- 217) R.dif. XENU, Camargo 518, Nuevo Laredo, Tams.
- 218) R.dif. XERX, Madero 7, Salamanca, Gto.
- 219) Cia. R.dif. de Coahuila, Prolongación Guerrero, Camino a San Carlos, Ci. Acuña, Coah. - 220) R. Pacifico, Matamoros, Edif. Combate D-1, Hermosillo, Son. - FM: 88.1 mc/s.
- 221) R.dif. XENQ, Plaza de la Constitución, Tulancingo, Hgo.
- 222) R.dif. XEQL, Apt. Postal 40, Zamora, Mich.
- 223) R.dif. XENH, Niños Héroes 219, Ci. Obregón, Son.
- 224) R.dif. XEAE, Guerrero y Ocampo 450, Ci. Acuña, Coah.
- 225) R.dif. XECW, Edif. Mercantil Altos 14, Zaragoza y Juan Escuita, Los Nochis, Sin.

★ SAINT PIERRE ET MIQUELON (French) ★

L.T.: GMT +3 h. - Pr.L.: French. - Po.: 5.000. - Rvrs.: 1.025. - E.C.: 110 V., A.C., 50 c/s.

RADIO ST. PIERRE (Go.)

FL: By R. dif. Télévision Française (Paris). - ADDR.: Service de la Radiodiffusion Télévision Française. St. Pierre et Miquelon. Cable: RTF, St. Pierre. Te.: 051. - L.P.: Dir.: J. Guerlais. Dir. Tec.: L. Langlois.

HOME SERVICE in French: 1375 kc/s 218.2 m 1 kW: Mo.-Fri. 15.00-16.30 (Thurs. 18.00), 21.30-01.00. Sat. 15.00-18.00, 21.30-02.00. Sun. 15.00-18.00, 21.30-02.30.

N.: 15.25, 23.05. - Wrp.: 15.30, 23.00. - ANN.: "Ici St. Pierre et Miquelon-Radiodiffusion Télévision Française". - INT.-SIG.: Extract from "Danses villageoises" (by E. Chabrier). - V. by letter.

★ UNITED STATES OF AMERICA ★

L.T.: See World Time Table. - Pr.L.: English. - Po.: 179.323.175. - Rvrs.: 168.500.000. - E.C.: 115 V., A.C., 60 c/s.

VOICE OF AMERICA (Go.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

ADDR.: Voice of America, U.S. Information Agency, 330 Independence Av., S.W. Washington 25, D.C. - L.P.: Dir. US Information Agency: Edward R. Murrow. Dir. Broadc. Sec.: Henry Loomis. Prgr. Mgr.: Alexander A. Klieforth. Engineering Mgr.: Edgar Martin. Dir. TV Sec.: Romney Wheeler.

STATIONS:

KCBR (50/100/200 kW), Columbia Broadcasting System, Inc., Delano, California.

KNBH (50/100/200 kW), National Broadcasting Company, Inc., Dixon, California.

WBOU (50 kW), National Broadcasting Company, Inc., Bound Brook, New Jersey.

WDSI (50 kW), Columbia Broadcasting Company, Inc., Brentwood, New York.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Wayne, New Jersey.
WGEO (25/50/100 kW), General Electric Company, Schenectady, New York.
WLWO (110 kW) Crosley Broadcasting Corporation, Bethany, Ohio.

VOA USIA FREQUENCY LIST

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
WDSI	5955	50.38	WLWO	11805	25.41	WLWO	15355	19.53
KCBR	5965	50.28	KCBR	11830	25.36	WBOU	15410	19.47
KNBH	5985	50.13	WBOU	11830	25.36	WLWO	17710	16.94
WDSI	5995	50.04	WGEO	11830	25.36	KCBR	17735	16.92
WLWO	6025	49.79	WDSI	11845	25.33	KCBR	17770	16.88
KCBR	6040	49.67	KNBH	11875	25.26	WBOU	17780	16.87
WLWO	6055	49.55	WLWO	11890	25.23	WLWO	17795	16.86
KNBH	6085	49.30	KCBR	11900	25.21	WLWO	17800	16.85
KNBH	6145	48.82	WDSI	11900	25.21	KCBR	17820	16.84
KCBR	6185	48.50	WLWO	11920	25.17	WGEO	17830	16.83
WLWO	6190	48.47	WDSI	11930	25.15	WDSI	17850	16.81
WLWO	9525	31.50	WBOU	11955	25.09	WBOU	17870	16.79
KNBH	9545	31.43	KCBR	15130	19.83	WDSI	17870	16.79
KCBR	9560	31.38	KCBR	15150	19.80	KCBR	21460	13.98
KCBR	9600	31.25	WLWO	15155	19.80	WLWO	21485	13.96
WDSI	9650	31.09	WDSI	15205	19.73	WLWO	21510	13.94
WLWO	9650	31.09	WLWO	15205	19.73	WBOU	21540	13.93
WBOU	9670	31.02	KCBR	15210	19.72	WBOU	21570	13.91
KNBH	9700	30.93	WLWO	15250	19.67	WGEO	21590	13.90
WLWO	9710	30.90	WDSI	15270	19.65	WLWO	21610	13.88
WLWO	9740	30.80	WLWO	15290	19.62	WDSI	21650	13.86
WDSI	9760	30.74	WBOU	15310	19.60	WBOU	21690	13.83
WLWO	9770	30.71	KCBR	15330	19.57	WDSI	21735	13.80
WBOU	11710	25.62	WBOU	15330	19.57	KCBR	21745	13.80
KCBR	11730	25.58	WGEO	15330	19.57			

RELAY STATIONS:

For frequencies of the relay stations, refer to the individual countries; Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Ryukyu Islands, and Philippines.

ANNOUNCEMENT:

Each program ends with these words spoken in English: "This program has come to you from the United States of America". The station identification is then announced in English.

INTERVAL SIGNAL:

Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission. At the beginning of a transmission the sign on announcements is followed by 3 minutes of musical symbol made up of alternate 5 seconds music and 5 seconds silence.



VERIFICATION by QSL-card. No return postage required.

F.P.L.: The Voice of America is currently building two new relay stations - one in Greenville, North Carolina which will be on the air in late 1962; the other near Monrovia, Liberia will be completed by mid-summer 1963. The Greenville station will consist of six 500 kW, six 250 kW and six 50 kW transmitters and will improve VOA's signal to Europe, Africa, the Middle East and Latin America. The Liberian Station will consist of six 250 kW and two 50 kW transmitters. Its primary purpose will be to reach all of Africa and will give supplemental coverage to parts of Central Europe and the Middle East.

CZECH-SLOVAK

04.30-05.00	U.S.m.o.
*05.30-06.00	31, 49
20.30-21.00	—
22.30-23.00	16, 19, 31
	19, 25, 31
ESTONIAN	
*02.00-02.30	—
18.30-19.00	13, 16, 19
*20.00-20.30	—

FRENCH

20.00-20.30	16, 19, 25
GEORGIAN	
14.00-14.30	13, 16, 19
*15.00-15.30	—

GERMAN

17.00-17.15	13, 16, 19
19.15-19.30	16, 19, 31

GREEK

17.15-17.30	13, 19
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HUNGARIAN

06.00-06.30	31, 49
18.30-19.00	16, 19, 25
21.30-22.00	16, 19, 25
*22.30-23.00	—
*23.00-23.30	—

LATVIAN

*02.00-02.30	—
17.30-18.00	13, 16, 19
*20.30-21.00	—

LITHUANIAN

*03.00-03.30	—
16.30-17.00	13, 16, 19
*18.30-19.00	—

POLISH

05.00-05.30	31, 49
16.00-16.30	13, 16, 19
19.30-20.00	16, 19, 31
*21.30-22.00	—

RUMANIAN

04.00-04.15	31, 49
17.30-18.00	13, 16, 19
20.30-21.00	16, 19, 25

RUSSIAN

02.30-03.00	31, 49
*03.30-04.00	—
*04.30-05.00	—
*06.30-07.00	—
15.00-15.30	13, 16, 19
*16.00-16.30	—
*17.00-17.30	—
18.00-18.30	13, 16, 19
*19.00-19.30	—
*20.00-20.30	—
21.00-21.30	16, 19, 25
*22.00-22.30	—

SERBO-CROAT

04.30-04.45	31, 49
*05.00-05.15	—
*05.30-05.45	—
19.00-19.30	16, 19, 25
21.00-21.15	16, 19, 25
*22.15-22.30	—

SLOVENE

17.00-17.15	13, 16, 19
*21.15-21.30	16, 19, 25

UKRAINIAN

*03.30-04.00	—
15.30-16.00	13, 16, 19

To Africa

FRENCH	U.S.m.b.	Relay Stations
19.30-20.00	13, 16	19
21.30-22.00	13, 16	19, 25, 31

To Near- and Middle East

ARABIC	U.S.m.b.	Relay Stations
03.30-04.00	31, 49	—
04.00-06.00		31, 41, 49, 238
17.00-21.00		25, 31, 41, 49, 238
TURKISH		
16.30-17.00	13, 19	13, 16, 31, 41, 49, 238
*17.30-18.00	—	16, 19

To Europe

ALBANIAN	U.S.m.b.	Relay Stations
*05.30-06.00	—	49
20.00-20.30	13, 19, 25	25, 31, 41, 49, 379
22.00-22.30	—	31, 41
ARMENIAN		
14.30-15.00	13, 16, 19	13, 16, 19, 25
*15.30-16.00	—	16, 19, 25
BULGARIAN		
04.15-04.30	25, 31, 19	31, 41, 49
16.30-17.00	13, 16, 19	16, 19, 25, 49
*18.00-18.30	—	49, 379
19.30-20.00	16, 19, 25	25, 31, 41, 49, 379

To South Asia

BENGALI (To Pakistan)	U.S.m.b.	Relay Stations
14.30-14.45	13, 16, 19	19, 25
14.45-15.00	13, 16, 19	11, 13, 19, 25
BENGALI (To India)		
13.30-14.00	13, 16, 19	11, 13, 19, 25, 41
HINDI		
15.30-16.00	13, 16, 19	11, 13, 19, 25, 41
TAMIL		
14.30-14.45	13, 16, 19	41, 11, 13
14.45-15.00	—	41
URDU		
15.00-15.30	13, 16, 19	11, 13
*16.00-16.30	—	19, 25

To Far East

AMOY	U.S.m.b.	Relay Stations
10.00-10.30	31, 49,	19, 31
*11.00-11.30	—	16, 19, 25, 31
*15.00-15.30	—	16, 19, 263
*14.30-15.00	—	19
BURMESE		
13.30-13.45	31, 49	16, 19
13.45-14.30	—	16, 19
*15.30-16.30	—	16, 19
CANTONESE		
12.00-12.30	31, 49,	16, 19, 25, 31, 49, 263
*13.00-13.30	—	25, 31
*14.00-14.30	—	19, 25, 31
*15.00-15.30	—	31
22.30-23.00	13, 16	25, 31, 41, 49, 326
*23.30-00.00	—	19, 31
INDONESIAN		
11.00-12.00	31, 49	19, 49
*13.00-14.00	—	19
JAPANESE		
21.30-22.00	13, 16, 19	41, 49
*00.30-01.00	16	—
*11.30-12.00	—	41
KOREAN		
11.30-12.00	31, 49	—
*13.00-13.30	—	25, 31, 263
22.30-23.00	13, 16	41, 49
MANDARIN		
11.30-12.00	31, 49	16, 19, 25, 31, 41, 254
*12.30-13.00	—	263
*13.30-14.00	—	19, 25, 31, 49, 254
14.30-15.00	31, 49	25, 31, 41, 49, 254
*15.30-16.00	—	16, 19, 25, 31, 49, 254
22.00-23.30	13, 16	31, 41, 49, 326
*23.00-23.30	—	41, 49
*00.30-01.00	—	16, 19, 25
RUSSIAN		
09.30-11.00	31, 49	19, 25, 31, 41, 49
*12.00-12.30	—	31, 41, 254
15.00-15.30	31, 49	19, 25, 41, 49, 254
*20.30-21.00	—	41, 49
UKRAINIAN		
*10.30-11.00	—	19, 25, 31, 41
15.30-16.00	31, 49	—
*20.00-20.30	—	41, 49
VIETNAMESE		
04.30-05.00	19, 25	16, 19
12.30-13.00	31, 49	16, 19, 263
*15.30-16.00	—	263
23.30-00.00	13, 16	19, 25

To Latin America

SPANISH	U.S. (kc/s)
11.00-13.00	6190, 9525, 11890, 15205
13.00-14.00	11890, 15205
23.00-00.00	6190, 9650, 11930, 15355, 17780
00.00-02.00	6190, 9650, 9750, 11930, 15355
02.00-04.00	6190, 9650, 11730, 15130
04.00-04.45	6190, 9650
PORTUGUESE	
22.00-01.00	11830, 11845, 15330

Programs in English

TO EUROPE	U.S. (kc/s)	Relay Stations (kc/s)
Time		
03.00-03.30	5955, 9760, 11920	6040M, 6080, 9615T
*04.00-04.30	—	1196, 3980, 5960, 6040M, 6080, 9615T
05.00-06.30	5955, 9770	1196, 3980, 5960, 6040M, 6080, 9615T
06.00-07.30	5955, 9770	1196, 3980, 5960, 6040M, 6080, 9615, 15205T, 1259, 6040, 7265R
07.30-07.45 (Sun.)	5955, 9770	7200M, 6080, 9615, 15205T
13.00-13.30	15410, 17780, 21540	15330, 17855T, 15340M
14.00-14.30	15410, 17780, 21570	15330, 17855T, 15340M
15.00-15.30	15155, 17830, 21590	15330, 17855T
16.00-16.30	15205, 21735	3980, 15340M, 9635TH, 15330T, 6185, 7125R
17.00-18.30	15205, 21735	173, 1196, 3980, 6170M, 6155TH, 9615T
18.30-19.30	15205, 21735 (to 19.00) 11900 (from 19.00)	173 (to 19.15), 3980, 6170M, 6155TH, 9615T
19.30-20.00	—	3980, 6170M, 6155TH, 9615T
20.00-21.00	11900, 15205	3980, 6170M, 6155TH, 9615T
21.00-22.30	11900, 15205 (to 21.30)	3980, 6170M, 6155TH, 9615T
(Sun. to 22.45)	—	1259, 6185, 7125R
22.00-00.00	—	173M
TO WEST AFRICA		
05.00-07.30	6025, 9740, 11805	
(Sun. to 07.45)		
17.00-19.30	17710, 21610	11940M
20.00-21.00	17710, 21610	11940M
21.00-21.30	17710, 21610	11775, 11940M
21.30-22.00	—	11940M
22.00-22.30	17710, 21610	9555, 11775, 11940M
(Sun. to 22.45)		
TO MIDDLE EAST & EAST AFRICA		
Time		Relay Stations (kc/s)
03.00-03.30		7200, 9545M, 7125, 9755T
*04.00-04.30		7200, 9545M
05.00-06.00		7200, 9545M
06.00-07.30		7200, 9545M, 6115, 15385T, 1259, 6185, 7265R
07.30-07.45 (Sun.)		7200, 9545M, 6115, 15385T
13.00-13.30		15290, 21455, 25880T, 15340M
14.00-14.30		15290, 21455, 25880T, 15340M
15.00-15.30		15290T, 15170M, 11840TH
15.30-16.00		15170M
16.00-16.30		15170, 15340M, 21455, 25880T, 1259, 6185, 7125R
16.30-17.00		7205TH
17.00-18.00		9530, 11775M, 21455T, 7205
18.00-21.00		TH, 7110, 11875, 15415 C
21.00-22.30		9530, 11775M, 7205TH
(Sun. to 22.45)		9530M, 7205TH, 1259, 6185, 7125R
TO SOUTH ASIA		
01.00-03.00		7275, 11835C, 17855P
12.00-13.30		(01.00-01.30, 02.00-02.30)
		7110, 11875, 15415C, 15340M, 21455, 25880T, 15185P (from 13.00)
14.00-14.30		7110, 11875, 15415C, 15340M
15.00-15.30		21455, 25880T
15.00-16.00		7110, 11875, 15415C
16.00-16.30		15185P
16.30-17.15		7110C, 15185P, 21455, 25880T
16.30-18.00		15185P
17.10-18.00		7110, 11875, 15415C
TO FAR EAST		
Time	U.S. (kc/s)	Relay Stations (kc/s)
09.00-09.30	6085, 6185, 9600	6075, 9650H, 7125, 7155, 7235, 9665OK, 11785, 15125, 15210, 15250, 15400P
*10.00-10.30		6075, 9650H, 7125, 7155, 7235, 9615OK, 11785, 15185, 15335P
10.30-11.00		7125, 7155, 7235, 9665OK, 9535, 15185, 15335, 17775P

*11.00–11.30		6075, 9650H, 1180, 7125, 7155, 7235, 9615OK, 920, 11785, 15335P
11.30–12.00	6145, 9545	7125OK, 920, 11785, 15335P
12.00–13.00		6075, 9650H, 7125, 7155OK, 920, 11785, 15335P
13.00–13.30	6085, 6145, 6185, 9545, 9600	6075, 9650H, 7125, 7155OK, 920, 1140, 11785, 15185, 15210, 15335, 17775P
13.30–14.00	6145, 9545	6075, 9650H, 7125, 7155OK, 920, 1140, 11785, 15335P
14.00–14.15	6085, 6145, 6185 9545, 9600	6075, 9650H, 1180, 7125, 7155, 7235OK, 920, 11785, 15335P
14.15–14.30	6145, 9545	1180, 7235OK
14.15–15.00	—	6075, 9650H, 7125, 7155OK, 920, 6125, 11785, 15335P
15.00–16.00	—	6075, 9650H, 7125, 7155OK 920, 6125, 11785, 15185, 15335P
16.00–16.30	6085, 6145, 6185 9545, 9600	6075, 9650H, 1180, 6010, 7125, 7155, 7235, 9665OK, 920, 1140, 6125, 11785, 11895, 15185, 15250, 15335P
*21.00–21.30	—	6075, 6145, 7160OK, 6185, 7135P
22.00–22.30	17820, 21460	6075, OK, 7135, 11895P
23.00–23.30	17735, 17770, 21745	6075, 6145, 920, 9580, 11895, 15185P
00.00–00.30	17735, 17770, 21745	11960, 15215OK,, 11895, 15130, 15155, 15185, 15360P
01.00–01.30	17735, 17770, 21745	11960, 15215OK, 15130, 15155, 15185, 15360P

TO LATIN AMERICA

Time	U.S. (kc/s)
23.00-01.00	9525, 11790, 15290
01.00-03.35	9525, 11790, 11830, 15290
(Mo. to 03.45)	

Transmitter Abbreviations: R=Rhodes, C - Colombo, H - Honolulu
M - Munich OK - Okinawa, P. - Philippines (Malolos & Poro), T -
Tangier, TH - Thessaloniki.

Program Abbreviations: M - Music USA. R - Repeat of last previous origination.

News programs transmitted during the first 15 minutes of the hour.

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR.: Directorate of Armed Forces Information and Education,
Washington 25, D.C. - FI.: By State (Dept. of Defense).

This office exercises over-all policy control of the Armed Forces Radio and Television Service. The mission of AFRTS is to keep U.S. Service men and women stationed outside the States the best informed service personnel in the world on current events. All broadcasts are in English. News, sports and other timely matter is beamed overseas directly by ten powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial radio and tv. networks. N. is compiled from the wires of A.P. and U.P.I. Regular shortwave prgr's are presented daily from both Los Angeles and New York City, over the tr's of the V.O.A. The operational headquarters of AFRTS, at Los Angeles, ships undated radio and tv. prgrs. on transcription and film, respectively, to overseas stations, and controls the Pacific Shortwave Service. Officer in Charge: Lt. Colonel Lother B. Sibert. USA.

EUROPEAN SERVICE (from New York)

ADDR.: Armed Forces Press, Radio and Television Service, 250 West 57th Str., New York 19, N.Y.

L.P.: Officer-in-charge: Lt. Col. John N. Bornholdt.

D. PRGR.: 50 kW – Period: All year.

Call	kc/s	m	Target Area	H. of fr.
WDSI-1	21650	13.91	Europe, No. Atlantic	14.30–22.45
WBOU-5	17780	16.87	Europe, No. Atlantic	14.30–22.45
WDSI-3	15290	19.62	Caribbean	14.30–16.30
WDSI-3	15270	19.80	Caribbean	16.30–22.45
WBOU-1	15185	19.75	Europe, No. Atlantic	18.00–22.45
MUN-7	11890	25.23	Mid East	15.15–22.45

N.: 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00.

"Dateline New York" (conference period): D. 14.30-14.45.
ANN.: "This is the United States Armed Forces Radio Service in New York City". - V. by QSL-card. - PUB.: Prgr.sched. published quarterly; available on request.

PACIFIC SERVICE (from Los Angeles)

ADDR.: AFRTS Shortwave, 1016 No. McCadden Place, Los Angeles, 38, Calif. Te.: Hollywood 23302.

D. PRGR.: 23.00–15.00, 16.00–16.30.

Call	kc/s	m	kW	Beam	h. of tr.
KCBR-2	5965	50.28	50	Japan/Korea	08.00-15.00
KCBR-2	5965	50.28	50	Alaska/Aleutians	16.00-16.30
KCBR-4	6040	49.67	100	Alaska/Aleutians	06.00-11.45
KCBR-3	9560	31.38	50	Philippines	08.00-15.00
KCBR-3	9560	31.38	50	Alaska/Aleutians	16.00-16.30
KCBR-5	11830	25.36	100	Philippines	06.00-08.00
KCBR-3	11900	25.21	50	Alaska/Aleutians	04.00-07.45
KCBR-2	15210	19.72	50	Japan/Korea	04.00-07.45
KCBR-4	15340	19.56	100	Caribbean	12.00-15.00
KCBR-4	17770	16.88	200	Philippines	02.00-07.00
KCBR-3	17820	16.84	50	Alaska/Aleutians	23.00-03.15
KCBR-2	21460	13.98	50	Japan/Korea	23.00-03.15

N.: Hourly from 23.00–14.00, also at 14.45 and 16.00 and at half-time periods in football games – College Football: Su. 23.15–02.00, 04.05–07.00, 09.00–11.45. – Professional Football: Mo. 04.05–07.00(repeated 09.00–11.45). – Conference Period: D. 07.05, 16.15, 23.05. – Armed Forces Digest: D. 07.45, 14.30, 23.30. – Newsmakers: Tues-Sat: 02.00. – Folklore Music: Su. 00.45, 02.05, 03.30, 08.05, 08.30, 11.05, 12.30; Mo. 11.05, 13.30; Wed. 13.30; Fri. 10.05; Tues-Sat: 01.30, 12.30.

ANN.: At the end of prgr.: "This is AFRTS Shortwave at Los Angeles". Hourly: "This is the United States Armed Forces Radio and Television Service, the voice of information and education, broadcasting on VOA tr. KCBR at Delano, Calif." - V. by QSL-card. - Freq.s are announced thirty minutes past each hour.

A.F.R.T.S.'s OUTLETS: BROADCASTING

Total outlets: Radio 94, TV with studios 26, FM 36, Carrier Current 21, Audio System 32, TV rel. 7, s.w. 4.

Abbreviations: A=Army - AFKN=American Forces Korea Network - FEN=Far East Network - N=Navy - RCAF=Royal Canadian Air Force - AF=Air Force - Fo=Fort.

The greater majority of the stations operate from 06.00–24.00 L.T.

NORTH ATLANTIC

NORTH AMERICA			EUROPE		
	sec.	kc/s		sec.	kc/s
Argentina	N	1480	Turkey		
Canada		0.25	Adana	AF	870
Goose Bay	RCAF	1340	Diyarbakir	AF	1535
N. Foundland		0.25			0.025
Stephenville	AF	1490			0.025
Azores		0.05	EUROPE		
Terceira	AF	1500	Germany (see Germany)		
Greenland		0.25	Greece		
Thule	AF	1420	Athens	AF	1585
Sondrestrom	AF	1425	Italy		0.25
Iceland		1	Verona	A	540
Keflavik	AF	1484	Vicenza	A	540
		0.25	FAIR EAST AREA		

ALASKA

Adak	N	890	0.5	Tokyo	AF	810	10
Elmendorf	AF	890	0.05	Tokyo s.w.	AF	$\begin{Bmatrix} 6160 \\ 11750 \\ 12527 \end{Bmatrix}$	10
Elison	AF	790	0.05				
Fo. Greely	A	980	0.25				
Kodiak	N	960	0.25	Tokyo s.w.	AF	3800	0.25
Shemya	AF	1240	0.05	Misawa	AF	1580	0.25
Sparrevohn	AF	1550	0.05	Wakkanai	AF	1590	0.1
Wildwood	A	1520	0.01	Iwakuni	AF	1580	1
Murphy Dome	AF	1570	0.01	Itazuke	AF	1550	2.5
				Chitose	AF	1570	0.25

CARIBBEAN AREA

Fo. Clayton ¹	A	790	5	Ryukyus Isl.			
Fo. Brook ²	A	1470	0.05	Ginawa	AF	650	1
Trinidad	N	570	0.25	So. Korea (AFKN)			
Ramey ²	AF	780	0.05	Taegu	A	1360	1
Guantanamo ³	N	1340	1	Pusan	A	1250	1
¹ Panama.				Seoul	A	560	5
² Puerto Rico.				Kuma-Ri	A	1400	1
³ Cuba.							

NORTH AFRICAN AREA

Libya				Tongduchon	A	1080	1
Tripoli	AF	1594	1	Munsan-Ni	A	1200	1
Morocco				Unchon-Ni		1400	1
P. Lyautey	N	1484	0.25	Taiwan (see also Taiwan)			
Sidi Slimane	AF	1594	0.25	Taiwan	N	1560	1
Nouasseur	AF	1594	0.25	Taiwan s.w.	N	7215	1
Ben Guerir	AF	1594	0.25	Philippines			

MIDDLE EAST AREA

Eritrea				Sangle Point	N	1300	0.25
Asmara	A	1500	0.25	PACIFIC AREA			
Daudi Arabia				Eniwetok, M.I.	AF	1385	0.25
Dhahran	AF	1195	0.25	Johnston Isl.	AF	1250	0.1
Crete				Kwajalein	N	1220	1
Iraklion	AF	1570	0.25	Midway Isl.	N	900	0.25
Iran				Andersen AFB,			
Teheran	A	630	0.25	Guam	AF	1000	0.25

PRIVATE STATIONS

Federal Communications Commission. An independent Federal agency composed of seven Commissioners appointed by the President, by and with the advice and consent of the Senate. One of its major activities is the general regulation of broadcasting—now visual as well as aural. This regulation, largely technical in nature, may be divided into two phases: 1) The allocation of spectrum space to the different types of broadcast services. 2) Considerations to build and operate individual stations.

Call letters.—International agreement provides for the national identification of the radio station by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. United States stations use the initial letters K, N, and W, exclusively, and part of the A series. Broadcast stations are assigned call letters beginning with K or W. Generally speaking, those beginning with K are assigned to stations west of the Mississippi River and in the territories and possessions, while W is assigned to broadcast stations east of the Mississippi.

Number of Broadcast Stations in the USA as of June 30th, 1961:

	Authorized	Licensed	Operating
A.M. Comm.	3757	3545	3602
F.M. Comm.	5092	829	889
F.M. Educational	199	176	186
TV Comm.	650	487	543
TV Educational	67	43	54

Also, 1044 TV-repeater and 401 TV translator stations are authorized to pick up and rebroadcast programs of regular TV-stations.

EDUCATIONAL STATIONS (non-comm.)

ADDR.: Office of Education, Washington 25, D.C. - L.P.: Chief Radio-Television: John F. White. Educational and Television Center: Coliseum Bldg., Columbus Circle, New York City, N.Y.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB.)

FL.: By membership fees. Also support from foundations. The national independent professional association, which since 1925 has represented the interests and needs of educational television and radio broadcasters, represents appr. 75% of the educational stations and production centers of the United States (appr. 90% exc. those identified as religious st.).

ADDR.: Headquarters: 1346 Connecticut Avenue, N.W., Washington 6, D.C. Te.: North 7-6000. - Publications and Network Offices: 119 Gregory Hall, Urbana, Illinois. Te.: Empire 7-6611, Ex. 3394. - L.P.: Pres.: William G. Harley. Adm. Vice-Pres.: Harold E. Hill. Stations: 175 educational institutions and organizations owning and operating a total of 229 educational radio and TV stations.

Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public sce's., radio and TV st's. and production centers. Its services include workshops, seminars, regional and national annual conferences, personnel-upgrading sce's., and employment agency, legal, research and other operational consultant sce's., and numerous publications in radio and TV, incl. a monthly Newsletter and a bi-monthly journal (available by subscription abroad at \$5.00 per year). It has an exchange-advisory membership relationship with most national educational organizations. The NAEB also operates a radio network which duplicates via tape and distributes to members' st's. ten hours of programming per week. At present there are some 118 st's. in this network. Exchanges of prgr's. with other nations are welcomed. It also actively cooperates with various international organizations (European Broadcasting Union, UNESCO etc.), and the national systems of various other countries (R.T.F., BBC, RAI, CBC and others), exchanging prgr's., publications and personnel with the broadcasting organizations of over 20 nations in Europe, Asia, Australia and Africa as well as those in No., C. and So. America. According to federal communications commission regulations, non-comm. educational FM st's. have no restrictions on transmission time:

COMMERCIAL STATIONS

NATIONAL ASSOCIATION OF BROADCASTERS

ADDR.: 1771 N Street NW, Washington 6, D.C. Te.: Decatur 2-9300. **Purpose:** The purpose of the Association is to foster and promote the development of the arts of aural and visual broadcasting in all its forms; to protect its members in every lawful and proper manner from injustices and unjust exactions; to do all things necessary and proper to encourage and promote customs and practices which will strengthen and maintain the broadcasting industry to the end that it may best serve the public.

L.P.: Chairman: C. R. McCollough. Pres.: LeRoy Collins. Sec.-Treasurer: E. E. Revercomb. Mgr. of Research: R. M. Allerton. Members as of June 1, 1961: AM Radio 1770 - FM Radio 594 - TV stations 378 - Radio Networks 4 - Television Networks 3.

M. W. Stations operating with a power of 10 kW an above. The time each station is authorized to operate is indicated in the list. Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two-thirds

of hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h. **Abbreviations:** D: Daytime operation. LS=Local Sunset. N: Night. L=Limited Time. + =CP granted for increase of power. CP=Construction permit. a) 24 h. Al=Alabama. Ala=Alaska. Ariz=Arizona. Ark=Arkansas. Cal=California. Colo=Colorado. D=Dakota. Fla=Florida. Ga=Georgia. Id=Idaho. Ill=Illinois. Ind=Indiana. Ia=Iowa. Kan=Kansas. Ky=Kentucky. La=Louisiana. Md=Maryland. Mo=Missouri. Mich=Michigan. Mass=Massachusetts. Minn=Minnesota. N.C.=No. Carolina. Neb=Nebraska. N.Y.=New York. O=Ohio. Okla=Oklahoma. Or=Oregon. Pa=Pennsylvania. P.R.=Puerto Rico. S.C.=So. Carolina. Tex=Texas. Tenn=Tennessee. Va=Virginia. Wisc=Wisconsin. U=Utah. ABC=American Broadc. Co., CBS=Columbia Broadc. System; Keystone Broadc. System; MBC=Mutual Broadc. Co.; NBC=National Broadc. Co.

Call	kW	Call	kW
WGTO	50 Cypress Gdns., Fla. D	KCBS	50 San Fran. Calif. CBS a)
610		WPAQ	10 Mt. Airy, N.C. KBS D
KFAR	5 Fairbanks Ala ABC, MBC, NBC	KRMG	50LS/10N Tulsa, Okla CBS a)
640		KTRH	50 Houston, Tex. CBS a)
KFI	50 L. Angeles, Cal. NBC. a)	WIAC	10 San Juan, P. Rico a) 750
650		WSB	50 Atlanta, Ga. NBC a)
KORL	10 Honolulu, Hawaii a)	KMMJ	10 Grand Island, Neb ABC D
WSM	50 Nashville, Tenn. NBC. a)	KXL	50 Portland, Oregon 760
660		WJR	50 Detroit, Mich a)
WNBC	50 New York, N.Y. NBC. a)	KGU	10 Honolulu, Hawaii NBC a)
WESC	10LS, Greenville, S.C. D.	770	
670		KOB	50LS/25N Albuquerque, N.M. NBC a)
WMAQ	50 Chicago, Ill. NBCa)	WABC	50 New York, N.Y. ABC a)
680		780	
KNBC	50 S. Francisco, Calif. NBC. a)	WBBM	50 Chicago, Ill. CBSa)
WCBM	10 Baltimore, Md. CBS. a)	810	
WNAC	50 Boston, Mass. a)	KGO	50 San Franc., Calif. ABC a)
WPTF	50 Raleigh, N.C. NBC a)	KCMO	50 Kansas City, Mo. CBS a)
WMPs	10 Memphis, Tenn. a)	WGY	50 Schenectady, N.Y. NBC a)
KENS	50 LS/10N, San Antonio, Tex. CBS a)	WKVM	25 San Juan, P.R. a)
WAPA	10 San Juan, P.R. ABC, MBS a)	820	
690		WFAA	50 Dallas, Tex. NBC
WVOK	50 Birmingham, Ala. D	WBAP	50 Ft. Worth, Tex. ABC
WAPE	25 Jacksonville, Fla. D	830	
KULA	10 Honolulu, Hawaii ABC a)	WCCO	50 Minneapolis, Minn. CBS a)
KHEX	10 El Paso, Tex. a)	840	
KGGF	10LS/5N Coffeyville, Kan. ABC a)	WHAS	50 Louisville, Ky. a)
WCYB	10 Bristol Va. ABC D	850	
700		WHDH	50 Boston, Mass. a)
WLW	50 Cincinnati, Ohio ABC, NBC a)	WJW	10LS/5N Cleveland, Ohio a) NBC
710		KOA	50 Denver, Colo. NBC a)
KMPC	50LS/10N Los Angeles a)	WKIX	10LS/5N Raleigh, N.C. ABC a)
WGBS	50LS/10N Miami, Fla. a)	WYDE	10 Birmingham, Ala. ska a)
KEEL	50/10/5 Shreveport, La. a)	860	
WHB	10LS/5N, Kansas City Mo. a)	WOAY	10 Oak Hill, W. Va. D
WOR	50 New York, N.Y. MBC a)	KOAM	10LS/5N Pittsburg, Kansas. NBC a)
KGNC	10 Amarillo, Tex. NBC a)	KTRB	10LS/1N Modesto, Calif. a)
KIRO	50 Seattle, Wash. CBS a)	870	
720		WWL	50 New Orleans, La. CBS a)
WGN	50 Chicago, Ill. a)	880	
730		WCBS	50 New York, N.Y. CBS a)
KFQD	10 Anchorage, Alaska CBS a)	890	
740		WLS	50 Chicago, Ill. ABCa)
WBAM	50 Montgomery, Alaska D	900	
KBIG	10 Avalon, Calif. D	KFRB	10 Fairbanks, Alaska a)

Call	kW	Call	kW	Call	kW	Call	kW
940		WTIC	50	1510		1550	
KFRE 50 Fresno, Cal. CBS a)		50 Hartford, Conn.) a)		KGA 50 Spokane, Wash. a)		WRIZ 10 Coral Gables, Fla. D	
WINZ 50LS/10N Miami, Fla. a)		KRLD 50 Dallas, Tex. CBS 1090		WLAC 50 Nashville, Tenn. CBS a)		WZST 10 Tampa, Fla. D	
WMAZ 50LS/10N Macon, Ga. CBS a)		KTHS 50 Little Rock, Ark. CBS a)		1520 WBKW 50 Buffalo, N.Y. a)		WKPT 10 Kingsport, Tenn. NBC D	
KIOA 10LS/5N Des Moines, Ia. MBS a)		WBAL 50 Baltimore, Md. NBC a)		KOMA 50 Oklahoma City, Okla. NBC a)		KREB 10LS/5N Shreveport, La. NBC a)	
WCPC 10 Houston, Miss D		KING 50 Seattle, Wash. NBC a)		KGON 10 Oregon City, Or. MBS a)		KQBY 10 San Franc. Cal. MBS a)	
WFNC 10 Fayetteville, N.C. MBS a)		1100 KYW 50 Cleveland, Ohio a)		WFYI 10 Mineola, N.Y. D		WBSC 10LS/5N Bennettsville, S.C. MBS a)	
WIPR 10 San Juan, P.R. a)		WHLI 50 Hempstead, N.Y. D		1530 KFBK 50 Sacramento, Cal. CBS a)		KSWC 50 Tucson, Ariz. D	
950 KPRC 50 Houston, Tex. NBC a)		KFAX 50LS/1N San Francisco, Cal.		WCKY 50 Cincinnati, O. a)		KBRB 10 Arvada, Colo. D	
990 KSYD 10LS/1N Wichita Falls, Tex. MBS a)		1110 KRLA 50LS/10N Pasadena, Cal. a)		KGBT 50 Harlingen, Tex. CBS a)		KPMC 10 Bakersfield, Cal. ABC a)	
WNOX 10 Knoxville, Tenn. CBS a)		WALT 10 Tampa, Fla. D		1540 KPOL 10 Los Angeles, MBS a)		WQXR 50 New York, N.Y. a)	
WHOO 10LS/5N Orlando, Fla. MBS a)		KFAB 50 Omaha, Nebr. NBC a)		KXEL 50 Waterloo, Iowa ABC a)		1580 KDAY 50 Santa Monica, Cal. D	
KTKT 10LS/1N Tucson, Ark. a)		WBT 50 Charlotte, S.C. CBS a)		WPTA 50 Albany, N.Y. a)		WPGC 10 Morningside, Md. D	
WIBG 50LS/10N Philadelphia, Pa. a)		1120 KMOX 50 St. Louis, Mo. CBS a)		KCUK 50LS/1N Ft. Worth, Tex. a)		WAXU 10 Georgetown, Ky. D	
WPRA 10 Mayaguez, P.R. a)		1130 KWKH 50 Shreveport, La. a)		WJMJ 50 Philadelphia, Pa. D		WPAC 10 Patchogue, N.Y. D	
WLKW 50 Providence, R.I. D		WCAR 50LS/10N Detroit, Mich. a)		1550 WBHM 50 Birmingham, Ala. D		KYND 10 Tempe, Ariz. D	
1000 WCFL 50 Chicago, Ill. a)		WDGY 50LS/25N Minneapolis Minn. a)				WWIL 10LS/1N Ft. Lauderdale, Fla. a)	
KOMO 50 Seattle, Wash. ABC a)		WNEW 50 New York, N.Y. a)		INTERNATIONAL BROADCAST STATION KGEI			
1010 WZRO 1/CP25 Jacksonville Beach, Fla. KBS D		1140 KGEM 10 Boise, Id. ABC a)		FL.: By donations; non-profit, non-comm. organization. - KGEI (The Voice of Friendship) is owned and operated by the Far East Broadcasting Co., Inc., Whittier, California.			
KXEN 50 Festus, St. Louis, Mo. D		KSOO 10LS/5N Sioux Falls, S. Dak. ABC a)		ADDR.: Box 887, Belmont, California.			
KRVN 25 Lexington, Nebr. D		KRAK 50 Sacramento, Cal. MCS a)		L.P.: Gen. Mgr.: R. E. Bronson. St. Mgr.: C. W. Lawrence. Dir. Prgr.: D. Pittman. Dir. Spanish Prgr.: J. Escalante. Dir. Tec.: D. C. Smith.			
WGUN 50 Decatur, Ga. MBS D		WRVA 50 Richmond, Va. NBC a)		STATION: 15225 kc/s 19.70 m 50 kW d. Latin America.			
KSAY 10 San Franc., Calif. D		WMIE 10LS/5N Miami, Fla. a)		D. PRGR.: 23.00(Sun. 22.00)-24.00 English, 00.00-02.45 Spanish, 02.45-03.15 (exc. Mo.) English.			
WINS 50 New York, N.Y. a)		WJJD 50 Chicago, Ill.		ANN.: English (Sign On): "This is the Voice of Friendship, International Broadcast Station KGEI, San Francisco, California, the United States of America, owned and operated by the Far East Broadcasting Company on a frequency of 15,225 megacycles in the 19 meter band. KGEI is dedicated to the purpose of promoting good will, better understanding and friendship among the peoples of the free world... This is the Voice of Friendship!" - INT.-SIG.: Sign off with anthem "The Lord Bless You and Keep You" followed by National Anthem. - V.: OSF-cards sent on request. - PUB.: Prgr.-schedule sent to all requesting.			
KLRA 10LS/5N Little Rock, Ark. a)		KSL 50 Salt Lake City, Utah. CBS a)		WORLDWIDE BROADCASTING SYSTEM			
WMOX 10LS/1N Meridian, Mo. a)		1170 WCOV 10LS/1N Montgomery Ala. CBS a)		(A Division of Metromedia, Inc.)			
KMLW 10 Marlin, Texas D		WWVA 50 Wheeling, W. Va. CBS		FL.: By adv. - ADDR.: 4 West 58th Street, New York 19, N.Y. Cable: Shortwave. Te.: PLaza 2-3322.			
WINQ 50 Tampa, Florida D		KCBQ 50LS/5N San Diego, Cal. a)		L.P.: Pres.: R. Brent. Dir. of News-Programming: M. Krauss. Dir. of Research: M. Garcia. Dir. of Sales: O. Cornejo. Sports Dir.: P. Nunez. Tec. Dir.'s: (Studio) J. Garafolo, (Transmitter) L. MacDonald. English Language Broadcasters: J. Lowry, H. Edell, T. Alderman, O. Rose, R. Whitfield. Spanish Language Broadcasters: T. Arriagada, A. Carvalho, C. Bañales, A. Oramas, M. Rosenberg, M. Bomar, R. Giovannini.			
1030 WBZ 50 Boston, Mass. a)		KVOO 50 Tulsa, Okla. NBC a)		FOREIGN SERVICE			
KCTA 50 Corpus Christi, Tex. D		KLOK 10L/1N San Jose, Cal. a)		Stations: WRUL 1-4 50 kW, WRUL-5 80 kW.			
1040 WHO 50 Des Moines, Ia. NBC a)		1180 WHAM 50 Rochester, N.Y. a)		kc/s m kc/s m kc/s m kc/s m kc/s m			
1050 WMGW 50 New York, N.Y. a)		1190 WOWO 50 Ft. Wayne, Indiana a)		9695 30.94 11855 25.31 15385 19.50 17750 16.90 21500 13.95			
1060 KPAY 10 Chico., Cal. MBS a)		KEX 50 Portland, Oregon a)		11790 25.45 15180 19.76 15390 19.49 17845 16.81			
WNOE 50LS/5N New Orleans, La. a)		KLIF 50LS/1N Dallas, Tex. a)		EUROPEAN-AFRICAN SCE. (Var. Languages): D. 18.30-22.00 on 11790/15385/17750 kc/s. - D. 18.30-19.05 Lutheran Hour: Mo. Hungarian & Greek; Tues. Czech & Ukrainian; Wed. Portuguese & Spanish; Thurs. Italian & German; Fri. Yugoslav. & Rumanian; Sat. Polish & Russian - 19.05-19.30 Mo.-Fri. Spanish (This World We Live In) plus N.; Sat. Hit Parade.			
WRCV 50 Philadelphia NBC a)		WANN 10 Annapolis, Md. D		English: 19.30-22.00. D. 19.30 & 21.30 N.: 19.45 Mo., Tues., Wed. World From New York; 19.45 Fri. Out Man at the UN; 19.45 Mo. Erwin D. Canham; 20.00 Mo.-Fri. "This World We Live In"; 21.00 Mo., Wed., Fri., Sat. Nutrition Prgr.; 21.00 Sun. Great Moments in History; 20.30 Sun. Hit Parade; 21.45 Mo.-Fri. American Business Bulletins. DX-Prgr.: Third Sat. of the month 19.45.			
1070 KNX 50 Los Angeles, Cal. CBS a)		1200 WOAI 50 San Antonio, Tex. NBC a)		LATIN AMERICAN SCE. (English & Spanish)			
WIBC 50LS/10N Indianapolis, Indiana a)		1210 WKNX 50 Saginaw, Mich. D		English: D. 22.15-24.00 on 11855/15380/17750/17845 kc/s. - N.: Sun.-Fri.: 23.30, Sat. 23.00; 22.15 Mo.-Fri. Nutrition Prgr.; 22.45 Tues., Wed., Thurs. World From New York; 22.45 Fri. Our Man at the UN; 22.45 Mo. Erwin D. Canham; 23.00 Mo.-Fri. "This World We Live In" 23.45 Mo.-Fri. American Business Bulletins; 22.30 Sat. Great Moments in History; 22.30 Sun. Hit Parade. DX-Prgr.: 3rd Sat. of the month 23.15.			
KIRL 10D/1N Wichita, Kans. ABC a)		WCAU 50 Philadelphia, Pa. CBS a)					
WDIA 50LS/5N Memphis, Tenn. a)		1220 WGAR 50 Cleveland, Ohio CBS a)					
WKOW 10LS/5N Madison, Wisc. CBS a)		1270 WKOK 10 Sunbury, Pa. CBS					
WAPI 50D/5N Birmingham NBC a)		1500 WTOP 50 Washington, D.C. CBS a)					
WFLI 10 Lookout, Mtn, Tenn. a)		WJBK 10LS/1N Detroit, Mich. CBS a)					
1080 KWJJ 10 Portland, Oregon ABC a)		KBLA 10 Burbank, Cal. a)					
		KSTP 50 St. Paul, Minn. NBC a)					

USA - United Nations

Spanish: 00.00-03.00 on 11855/15390/17750/17845 kc/s. - N.: D. 00.00, 01.30; Sport: D. 00.15. This World We Live In: Mo.-Fri. 00.30 (incl. Listeners Corner). Special DXing Ham's, Stamp, Photography, Arts & Record prgrs.: D. 02.45.

ANN.: E. "The World Comes to you over International Radio Station WRUL. Tonight WRUL is broadcasting on the following frequencies...". Sp.: "Esta es WRUL, la Radio Internacional de Nueva York de la Worldwide Broadcasting System". - V. by QSL-card and letter. - PUB.: Write for Prgr. schedule.

AMERICAN BROADCASTING CO. (A Division of American Broadc., Paramount Theatres, Inc.). - ADDR.: 7 West 66th Str., New York 23, N.Y. Te.: Susquehanna 7-500. - L.P.: Pres. American Broadc. - Paramount Theatres and A.B.C.: L. H. Goldenson. Financial Vice-Pres. AB-PT and Executive Vice-Pres. A.B.C.: S. B. Siegel. Vice-Pres. in charge of Press Information for A.B.C.: M. J. Foster. Vice-Pres. in charge of the ABC Network: R. R. Pauley. Owned and operated stations: WABC+FM, KABC+FM, Los Angeles, KGO+FM, San Francisco, WXYZ+FM, Detroit, KQV, Pittsburgh, WLS, Chicago.

COLUMBIA BROADCASTING SYSTEM INC.: ADDR.: 485 Madison Ave., New York 22, N.Y. Te.: Plaza 1-2345. - L.P.: Chairman of the Board of Directors: William S. Paley. Pres.: F. Stanton. Pres. CBS Radio Division: A. H. Hayes. Dir. Information Sec.: S. Garfield.

Owned and operated stations: WCBS, New York, WBBM, Chicago, KCBS, S. Francisco, KMOX, St. Louis, KNX, L. Angeles, WEEL, Boston, WCAU, Philadelphia. - V. by QSL-card or letter.

NATIONAL BROADCASTING COMPANY INC.: ADDR.: 30 Rockefeller Plaza, New York 20, N.Y. - L.P.: Chairman of the Board: Robert W. Sarnoff. Pres.: Robert E. Kintner. Senior Exec. Vice Pres.: D. C. Adams. Exec. Vice Pres.-NBC Owned Stations & Scott Sales Division: P. A. Sugg. Exec. Vice Pres. TV Network: W. D. Scott. Vice Pres. Radio Network: W. K. McDaniel. Vice Pres. Enterprises Division: A. R. Stern. Vice Pres. Corporate Affairs: L. Bernstein. Dir. Internat. Enterprises: Clifford W. Slaybaugh.

Owned and operated Radio Stations: WNBC+WNBC-FM, 30 Rockefeller Plaza, New York 20, N.Y. Te.: Circle 7-8300. Vice Pres. and Gen. Mgr.: T. Walworth. - WRC+WRC-FM, 4001 Nebraska Ave., Washington 16, D.C. Te.: Emerson 2-4000. Vice Pres. and Gen. Mgr.: J. Goodfellow. - WJAZ+WJAZ-FM, 1459 Crane Ave., Pittsburgh 20, Pa. Te.: Locust 3-5238. Gen. Mgr.: S. J. Rooney. - WMAQ+WMAQ-FM, Merchandise Mart, Chicago 54, Ill. Te.: Superior 7-8300. Vice Pres. and Gen. Mgr.: L. E. Yoder. - WRCV, 1619 Walnut Str., Philadelphia 3, Pa. Te.: Locust 4-3700. Vice Pres. and Gen. Mgr.: R. W. Welpont. - KNBC+KNBC-FM, 420 Taylor, S. Francisco 2, Cal. Te.: Greystone 4-8700. Gen. Mgr.: W. B. Decker.

★ PUERTO RICO ★

Commonwealth of - (U.S. Territory)

L.T.: GMT ÷ 4 h. - Pr.L.: Spanish, English. - Po.: 2,318,000. - Rcvrs.: 1,410,000.

BROADCASTERS ASSOCIATION OF PUERTO RICO,

P. O. Box 10144, Santurce.

STATIONS: All st's common. exc. 10) & 24). - St's allowed to operate as many hours as they wish.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) WPAB	550	5/1	11) WPRA	990	10	21) WTLT	1300	1
2) WKAQ	580	5	12) WMIA	1070	0.5	22) WRIO	1320	5/1
3) WAEL	600	1	13) WVJP	1100	0.25	23) WGRF	1340	0.25
4) WAPA	680	10	14) WITA	1140	0.5	24) WJVV	1370	1
5) WKJB	710	1/0.5	15) WORA	1150	1	25) WHOA	1400	0.25
6) WIAC	730	10	16) WLEO	1170	0.25	26) WEUC	1420	1
7) WKVM	810	25	17) WNIK	1230	0.25	27) WNEL	1450	0.25
8) WABA	850	0.5	18) WALO	1240	0.25	28) WMDD	1490	0.25
9) WPRP	910	5	19) WISO	1260	1	29) WWWW	1520	0.25
10) WIPR	940	10	20) WCMN	1280	1	30) WRSJ	1560	5

FM: 32) WFID 95.7 mc/s, 33) WPRM 98.5 mc/s, 31) WXRf 1590 1 D.PRGR.: 10.00-approx. 04.00 exc. where indicated.

1) Portorican American Broadc. Co., P.O. Box 786, Poncé. - D.PRGR.: 10.00-02.00.

2) El Mundo Broadc. Corp., 654 Poncé de Leon Av., San Juan. - FM: 104.7 mc/s.

3) R. WAEL, Box 297, Mayaguez. - 4) R. WAPA, Box 4563, S. Juan.

5) R. WKJB, Box 1293, Mayaguez. - L.P.: Mgr.: J. A. Bechara Jr.

6) R. WIAC, 1261 Poncé de Leon Av., S. Juan. - L.P.: Mgr.: T. Muñiz.

7) American Colonial Broadc. Corp., Box 4189, S. Juan. - L.P.: Mgr.: R. P. Perry. 8) R. WABA, Box 188, Aguadilla. - L.P.: Mgr.: F. Bonnet.

9) Voice of Puerto Rico, Box 430, Poncé. - L.P.: Mgr.: A. F. de Arellano. - ANN.: "Transmite WPRP, Poncé, Puerto Rico, 910 kc/s en el cuadrante de su radio".

10) Department of Education of P.R., Hostos Av. & Tous Soto Str., S. Juan. - L.P.: Dir. Gen.: R. Delgado M. - D.PRGR.: 11.00 (Sun. 12.00)-02.15. - N.: 14.00, 16.00, 19.00, 22.00. - ANN.: "WIPR, La emisora del Pueblo de Puerto Rico, en San Juan, Puerto Rico". -

V. by OSL-card. - FM: 89.7 mc/s.

11) R. WPRA, Box 869, Mayaguez. - D.PRGR.: 24 h.

12) Abacoa Radio Corp., Barrio San Daniel, Insular rd. 2, Arecibo. - L.P.: Mgr.: C. M. Pirallo. - D.PRGR.: 09.30-04.00.

13) Borinquen Broadc. Corp., Box 207, Caguas. - L.P.: Mgr.: H. Peireira. - D.PRGR.: 12.00-03.00.

14) Electronic Enterprises Inc., Box 2792, S. Juan. - L.P.: Mgr.: M. A. Suarez. - D.PRGR.: 04.00-16.00. Mo. through Sun.

15) Radio Americas Corp., Box 43, Mayaguez. - L.P.: Mgr.: R. M. Dupont. - D.PRGR.: 10.00-02.00. - FM: 97.5 mc/s.

16) Poncé Broadc. Corp., Box 1526, Poncé. - L.P.: Mgr.: C. Cordero. Dir. Tec.: J. H. Conesa. - D.PRGR.: 10.00-03.00. - V. by OSL-card. -

17) Arecibo Radio Corp., Box 1075, Arecibo. - L.P.: Mgr.: L. E. Freyre. - D.PRGR.: 10.00-03.00. - V. by letter. R.p.

18) R. WALO, Desengano Str., Humacao. - L.P.: Mgr.: A. L. Ochoa.

19) South P. R. Broadc. Corp., Box 2023, Poncé. - L.P.: as 17).

20) Caribbean Broadc. Corp., Box 7, Arecibo. - L.P.: Mgr.: N. Barreto. - 21) Mayaguez Radio Corp., Box 1346, Mayaguez.

22) Master Broadc. Corp., Barrio Monacillos, Insular rd. 1, Rio Piedras. - L.P.: Mgr.: I. Quinones V. - D.PRGR.: 10.00-04.00.

23) Jaicoa Broadc. Corp., Box 863, Aguadilla. - L.P.: Mgr.: M. A. del Valle. 24) Calvary Baptist Mission of P.R., Box 338, Vieques Island. -

L.P.: Dir. Gen.: P. D. Luttrell. Dir. Tec. D. Shereda. - D.PRGR.: 10.00-14.00. - V. by letter.

25) Continental Broadc. Corp., 566 Poncé de Leon Av., S. Juan. - L.P.: Mgr.: W. R. Anthony. - D.PRGR.: 10.30-05.00.

26) Catholic University of Puerto Rico, Service Assn., Campus, Poncé. - L.P.: Rev.: W. E. Alvarez. - 27) Inter-American Radio Corp., Box 487, Caguas. - L.P.: Mgr.: E. Biasochea. - D.PRGR.: 10.00-02.00.

28) R. WMDD, Box 387, Fajardo. - D.PRGR.: 10.00-02.00.

29) R. WWWW, Box 935, Rio Piedras. - L.P.: Mgr.: F. A. Gandia.

30) Antilles Broadc. Corp., P.O. Box 5627, San Juan. - L.P.: Gen. Mgr.: J. Morales. - 31) Guayama Broadc. Co., Hostos 42N, Guayama. -

Mgr.: G. Cordero Jr. - D.PRGR.: 10.30-03.00. - V. by QSL-card.

32) Fidelity Broadc. Corp., J-one-Violeta Str., Rio Piedras. - L.P.: Mgr.: S. De Acosta. - 33) P. R. Music Services, Box 490, S. Juan.

★ VIRGIN ISLANDS (American) ★

L.T.: GMT ÷ 4 h. - Pr.L.: English. - Po.: 32,000. - Rcvrs.: 7,500. - E.C.: 110 V., A.C., 60 c/s.

ST. CROIX:

RADIO AMERICAN WEST INDIES, INC. (Comm.)

ADDR.: P. O. Box 931, Christiansted, St. Croix. Cable: RAWI. Te.: 223. - L.P.: Pres.: Mrs. H. M. Higdon. - HOME SCAE: WIVI 970 kc/s 309 m 1 kW: D. 09.30-04.30*. N.: hourly. - V. by QSL-card. (K Also FM: 5 kW).

VIRGIN ISLANDS BROADCAST SYSTEM (Comm.)

ADDR.: Box 456, Frederiksted, St. Croix. - FM: 100.1 mc/s 0.78 kW.

ST. THOMAS:

W. I. INDUSTRIES, INC. (Comm.)

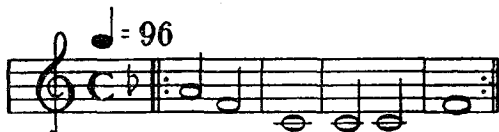
ADDR.: P. O. Box 538, Charlotte Amalie, St. Thomas. Cable: WSTA. Te.: 489. - L.P.: Gen. Mgr.: L. Stein. - D.PRGR.: 10.00-04.00 on 1340 kc/s 223.8 m 0.25 kW. - V. by letter.

★ UNITED NATIONS ★

UNITED NATIONS RADIO

ADDR.: United Nations, New York. Cable: Unations, New York. Te.: Pl 4-1234. - L.P.: Under-Secr., Office of Public Inf.: Dr. Hernane Tavares de Sá. R. & Visual Services Div.: Dir.: J. d'Arcy. Chief, R-TV Operations: M. Hayward.

INT.-SIG.: Music chime



ANN.: "This is the 'United Nations'. This introductory phrase is used in all the official UN prgrs. in all of the languages concerned. Message to listeners: The R. & Visual services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the sched. of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Addis Ababa, Athens, Bangkok, Belgrade, Bogota, Buenos Aires, Cairo, Colombo, Copenhagen, Dar-es-Salaam, Djakarta, Geneva, Kabul, Karachi, Lima, London, Manila, Mexico City, Monro-

SOUTH AMERICA

1:50 Mill.

0 500 1000 1500 2000 KM



CENTRAL AMERICA

1:15 Mill.

0 100 200 300 400 500 KM

United Nations - Costa Rica

via, Moscow, New Delhi, Paris, Prague, Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sidney, Teheran, Tokyo, Tunis, Usumbura, Washington, D.C.

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To No., We. & So. Europe: Mo.-Fri. 17.00-17.30 17865/21540 kc/s (WDSI/WBOU), 17.30-18.00 15185/17865 kc/s (WBOU/WDSI), 18.00-18.30 15250/17705/17865/21485 kc/s (WLWO/Tangier/WDSI/WLWO). N. in Dutch, Finnish, Icelandic, English, French, Arabic, German, Italian, Greek, Turkish.

To We. & C. Africa: 18.45-19.00 (Mo.-Fri.) 17795/21520 kc/s (WLWO) 07.00-07.30 (Tues.-Sat.) 6055/9710 kc/s WLWO. N. in French, English.

To C. & So. Africa: 04.30-05.00 (Tues.-Sat.) 6025/9740 kc/s. N. in French, English.

To M. East/So. Europe: 07.15-08.00 (Tues.-Sat.) 15295/21705 kc/s Tangier. N. in English, Amharic, Hebrew, Serbo-Croat, Italian. - This prgr. is transmitted to Tangier 03.45-04.30 on 9770/11805 kc/s (WLWO).

To Latin America in Spanish: 23.00-23.30 (Mo.-Fri.) 15270/15355/17780 kc/s WDSI/WLWO/WBOU, 01.45-02.00 (Tues.-Sat.) 11715/15130 kc/s KCBR.

To Asia & F. East: 01.30-01.45 (Tues.-Sat.) English for Malaya 17770 kc/s (KCBR), 08.00-08.15 (Tues.-Sat.) English for Au/NZ 9740/11875 kc/s (KNBH), 10.00-10.30* (Tues.-Sat.) 15210 kc/s Manila. N. in English, Thai, Indonesian, 10.30-10.45* (Tues.-Sat.) 11785/15210 kc/s Manila. N. in Chinese, 10.45-11.00* (Tues.-Sat.) 11785/15210 kc/s Manila. English for S. E. Asia.

*) These prgrs. are transmitted to Manila on 6145/9545 kc/s (KNBH), 11.45-12.00 (Tues.-Sat.) 21455/21585/25880 kc/s Tangier/Munich/Tangier. English for Ceylon. This prgr. is transmitted to Munich & Tangier on 15155/15195/17780/21545/21570 kc/s (WLWO/WBOU)

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1) To Europe/M. East (English/French):

AM Meeting: 14.30-17.00 17850 kc/s (WBOU) - PM Meeting: 19.00-21.45 15280 kc/s (WBOU), 21.45-23.15 9770 kc/s (WLWO), 23.00-concl. 5965 kc/s (WBOU), 23.15-concl. 9670 kc/s (WBOU).

2) To We. & C. Africa (English/French):

AM Meeting: 14.30-17.00 21610 kc/s (WLWO) - PM Meeting: 19.00-21.30 21520 kc/s (WLWO), 19.00-23.00 17795 kc/s (WLWO).

3) To Latin America (Spanish):

AM Meeting: 14.30-17.00 17865 kc/s (WDSI) - PM Meeting: 19.00-22.45 17850 kc/s (WDSI), 00.30-concl. 11830 kc/s (WBOU).

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CENTRAL AMERICA



★ BAHAMAS (British) ★

L.T.: GMT +5 h. - Pr.L.: English. - Po.: 105.000. - Rcvrs.: 30.000. - E.C.: 120 V., A.C., 60 c/s.

BAHAMAS BROADCASTING AND TELEVISION COMM. MISSION (Go.) - ADDR.: P. O. Box 1347, Nassau. - L.P.: Mgr.: H. R. Bethel.

HOME SERVICE: ZNS 1540 kc/s 195 m 10 kW: W. 11.00-05.00. Sun. 12.00-05.00. - N.: 13.15, 18.15, 00.15. - ANN.: "This is St. ZNS, Nassau". - V. by letter.

★ BERMUDA (British) ★

L.T.: GMT +4 h. - Pr.L.: English. - Po.: 44.000. - Rcvrs.: 18.400. - E.C.: 110/120 V., A.C., 60 c/s.

BERMUDA BROADCASTING CO. LTD. (Comm.)

Fl.: By adv. - ADDR.: Box 314, Hamilton. Cable: ZBM Bermuda. Te.: 2-1122. - L.P.: Man. Dir.: W. Staskow. Mgr.: G. Robinson. Dir. Tec.: J. H. Spershott.

HOME SERVICE: ZBM-1, ZBM-2: 0.25 kW:

1235 kc/s 242.9 m: W. 24 h.

1340 kc/s 232.3 m: W.: 11.00-01.00, Sun. 13.00-03.00.

N., Wrp.: English: D. 10.55, 11.45, 13.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00. - Portuguese: D. 10.15-10.30 on 1235 kc/s. - French: Wed. 14.30-16.00 on 1340 kc/s. - German: Wed. 14.00-14.30 on 1340 kc/s.

ANN.: "This is R. Bermuda". - V. by QSL-card. R. p. - Prgr. sched. free on request.

★ COSTA RICA ★

L.T.: GMT +6 h. - Pr.L.: Spanish. - Po.: 1.199.116. - Rcvrs.: 75.000. E.C.: 110 V., A.C., 60 c/s.

DEPARTAMENTO CONTROL NACIONAL DE RADIO

ADDR.: Apartado 3483, San José. Cable: Ranac. Te.: 7339.

L.P.: Dir.: L. H. Andrés.

STATIONS: All st. comm. exc. 3), 22) (Rel.), 15), 38) (Cultural).

Short Waves: Call: TI-----, ¹ East & West. ² North & South.

Call	kc/s	m	kW	m.w.	Name	H. of tr.
1) Q	5954	50.39	1	1200	R. Casino	11.55-06.00
2) HBG	6006	49.95	1	700	R. Reloj	12.00-06.00
3) FC	6037	49.69	2d ¹	1075	Faro del Caribe	12.00-05.00
4) GG	6075	49.38	1	1125	R. Excelsior	12.00-05.00
5) GPH	6215	48.27	1	650	R. Monumental	11.00-0.600
6) RICA	9615	31.20	3	625	La Voz de la Victor	11.00-05.00
3) FC	9645	31.10	2d ¹	1075	Faro del Caribe	12.00-05.00

Medium Waves: Call: TI-----, ⁰ = Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
7) JJH	550	1.5	17) CS	900	6	27) ALC	1250	1
8) JC	575	1	18) LS	925	2	28) RE	1275	1
9) AV	600	1	19) LC	950	1	29) SBJ	1300	2
6) DCR	*625	6	20) RS	975	4	30) WV	1350	1
5) BAS	*650	3.5	21) CEC	1000	1	31) MAR	1375	1
10) U	675	1	22) AC	1025	2	32) LG	1400	2
2) HB	*700	2	23) RH	1050	1	33) CJ	1425	1
11) LX	725	1	3) FC	*1075	10	34) MMC	1450	1
12) RA	750	1	24) EM	1100	1	35) HCJ	1475	1
13) W	775	4.5	4) GG	*1125	1	36) RU	1500	1
5) GPH-2	800	3.5	25) SM	1150	1	37) EEAW	1525	1 ¹
14) OS	825	1.5	11) CA	1175	2	38) MET	1550	1
15) UCR	850	1	1) Q	*1200	1	39) JJG	1575	1
16) SS	875	1.3	26) BSD	1225	1			

FM: 5) 88.0 mc/s. 22) 92.1 mc/s.

Short Waves:

1) Apt. 287, Puerto Limon. - L.P.: Dir.: L. Villalobos. - V. by letter.

2) Apt. 341, San José. - L.P.: Dir.: R. Barahona G. - V. by letter.

3) Apt. 2710, San José. Te.: 1250. - L.P.: Mgr.: F. Cabezas B. Dir. Prgr.: W. Wortman. Dir. Tec.: P. Smith. - D. Prgr.: On all fq's: Spanish: W. 12.00-04.00. Sun.: 12.30-20.00, 21.00-04.00. - "Caravana Musical" (request prgr.): W.: 19.00-20.00, 22.00-23.00. - English: D. 04.00-05.00. Sun. 20.00-21.00. - German: Sun. 19.30-19.45. - ANN.: E.: "This is TIFC, the Lighthouse of the Caribbean, in San José, Costa Rica". Sp.: "TIFC, FARO del Caribe, en San José, Costa Rica".

- V. by OSL-card. - PUB.: Prgr.-sched. free on request.

4) Apt. 1774, San José. - L.P.: Dir.: G. Grillo O. - V. by QSL-card or letter.

5) Apt. 800, San José (TIGPH-2: Nueva Alma Tica). - L.P.: Dir.: L. Pinto S. - V. by letter.

6) Apt. 3611, San José. Cable: La Victor. - L.P.: Dir. Gen.: M. Acosta. Dir. Prgr.: J. Sanchez. Dir. Adm.: C. Acosta. Dir. Tec.: A.

Alfaro. Dir. F. R.: H. Arias. - D. PRGR.: N., Comm.: 11.45, 12.30, 17.00, 21.00, 03.30, 04.50. - Nat. Music.: 11.30, 20.30, 04.00. - Wrp.: 12.30. - ANN.: "R. Internacional de Costa Rica" or "La Voz de la Victor". - V. by letter.
Medium Waves: D. 12.00-05.00.
 7) R. Progreso, Apt. 122, Alajuela. - L.P.: Dir.: E. Martínez.
 8) Radionolis, Apt. 854, San José. - L.P.: Dir.: J. Casto C.
 9) R. Selecta, Apt. 4666, San José.
 10) R. Musical, Apt. 854, San José.
 11) R. Columbia, Apt. 708, San José (TICA: Apt. 708, Puntarenas).
 12) Radiolandia, Apt. 2525, San José. - L.P.: Dir.: R. Aguilar V.
 13) R. City, Apt. 835, San José. - L.P.: Dir.: A. Múrolo C. - V. by letter. Re. in E.
 14) R. Titania, Apt. 512, San José.
 15) R. Universitaria, San Pedro. - L.P.: Dir.: C. Salazar H. Dir. Tec.: A. Mora R. - D. PRGR.: 14.00-04.00 (Classical Music only). - V. by letter.
 16) La Voz del Tropico, Apt. 914, San José.
 17) La Voz de America, Apt. 517, San José.
 18) Radion, Guadalupe. - L.P.: Dir.: R. Castro.
 19) R. Hispana, Cartago. - 20) R. Athena, Apt. 208, San José.
 21) R. Cima, San Ramón. - L.P.: Dir.: C. E. Córdoba.
 22) R. Fides, Apt. 1933, San José. - L.P.: Dir.: G. Jimenez A. Dir. Tec.: A. Lizano. - D. PRGR.: 11.00-04.15 N.: 17.00. - L.L. (English & French): D. 17.15-18.00. - ANN.: "T.I.A.C. Radio Fides, Emisora Católica de la Iglesia de Costa Rica". - F.P.L.: s.w.-tr.
 23) R. El Mundo, Apt. 1339, San José. - 24) R. Pampa, Apt. 3419, Nicoya. - 25) R. Sport, Apt. 4140, San José. - 26) R. Victoria, Cartago. - 27) R. Universal, Apt. 3202, San José.
 28) R. Emmaus, Coronado. - L.P.: Dir. Gen.: C. H. Rodríguez Q. Dir. Prgr.: V. Cot. Rigola. Dir. Tec.: A. D. Romero, A. Mora. - D. PRGR.: 11.50-03.15. - F.P.L.: Sw.-tr.
 39) R. Libertad, Apt. 4075, San José. - 30) R. Centro, Puntarenas. - 31) R. Tropical, Heredia. - 32) R. Cariari, Limón. - L.P.: as 1). - 33) R. Sinai, San Isidro del General. - 34) R. Gólfito, Puerto Gólfito. V. by letter.
 35) R. Regional, San Carlos. - V. by letter. - F.P.L.: Sw.-st. in 49 m.b.
 36) R. Union, Liberia Gte.
 37) R. Turrialba, Turrialba. - L.P.: Dir.: D. Castro C.
 38) Servicio Meteorológico, Minist. Agricultura, San José.
 39) La Voz de Guanacaste, Liberia.

★ CUBA ★

L.T.: GMT+5 h. - Pr.L.: Spanish. - Po.: 6.412.000. - Rvrs.: 1.102.000. - E.C.: 110/220/440 V., A.C., 60 c/s.

MINISTERIO DE COMUNICACIONES

Dirección General de Telecomunicaciones.

ADDR.: Plaza de la República "José Martí", La Habana.

L.P.: Dir. Gen.: J. Rafael Lauzán.

STATIONS: Short Waves: Call: CO—, * = currently inactive.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) KC	*6317	47.50	1	850	R. Oriente
2) CF	6345	47.30	1	910	Union Radio: 11.00-05.00
3) CW	6435	46.62	1	590	R. Rebelde: 23.00-05.00
4) BZ	9025	33.23	1	830	R. Salas: 16.00-04.00
5) BQ	*9235	32.45	1	890	Onda Musical del Oyente
6) BC	9362	32.05	1	690	R. Progreso: 10.30-06.00
7) CO	9530	31.46	0.25	980	R. Libre: 12.00-14.30, 16.00-05.00
8) JK	9620	31.19	1	1160	La V. del Camagüeyano: 12.00-05.00
9) CQ	9670d	31.02	1	630	Circuito CMQ: 10.00-05.00
10) BL	*9833	30.51	1	860	R. Aeropuerto
11) -	11760	25.51	100		R. Habana Cuba: 19.00-23.00, 01.00-06.00
11) -	11770	25.49	100		R. Habana Cuba: 19.00-06.00
12) BH	*11800	25.42	1	790	R. Cadena Habana
11) -	11875	25.26	100		R. Habana Cuba: 19.00-06.00
11) -	15300	19.61	100		R. Habana Cuba: 17.00-19.00
11) -	15340	19.56	1	1010	R. Habana Cuba: 12.00-05.00

Medium Waves: Call: CM—, * = Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
13) CY	550	15	11) CH	*790	10	3) KN	930	1
3) HI	570	10	4) BZ	*830	5	17) BF	950	10
3) W	590	10	3) AN	840	1	3) GN	960	0.5
3) KV	600	10	3) JN	840	1	3) NJ	960	5
9) Q	*630	50	1) KC	*850	1	7) CK	*980	5
9) KU	630	2	10) BL	*860	15	12) Z	*1010	10
9) HQ	640	15	5) CQ	*890	0.25	18) CX	1060	10
14) CU	660	5	9) JV	900	1	19) BQ	1150	5
6) BC	*690	50	2) CF	*910	10	8) JK	*1160	1
15) CA	730	10	9) AQ	920	1	20) CI	1260	5
9) KJ	740	10	9) JL	920	10	21) CB	1330	1
16) CD	760	10	3) GF	930	0.25			

+13 low power st.'s in Habana not mentioned.

Short Waves:

1) Aguilera 511, Santiago de Cuba. - D. PRGR.: M.w.: 10.30-05.00.

2) Apt. 3237, Habana. - D. PRGR.: W. 10.56 05.57. Sun. 10.56-05.00. N.: 11.00, 17.00(W), 23.00(W). - ANN.: "Union Radio de la Confederación de Trabajadores de Cuba".
 3) Ca. O. 157, Apt. 3540, Habana. - L.P.: Dir. Gen.: A. Leon A. Dir. Tec.: A. Gil Izquierdo. - D. PRGR.: All m.w. st.'s: 10.00-05.00. N.: 10.00, 18.00, 23.00, 03.00. - ANN.: "Trasmite CMW R. Rebelde y su gran Cadena Nacional desde la Habana, Cuba Territorio Libre de America, R. Rebelde a la Vanguardia de la Revolución Cubana - Miembro del Frente Independiente de Emisoras Libres, Fiel a Cuba, Fiel a la Revolución". - V. by QSL-card. Re. in Sp., E.
 4) San Rafael 108, 2° Piso, Habana. - D. PRGR.: N.: 17.35, 20.00, 00.00. - V. by QSL-card.
 5) Av. Menocal 801, Habana.
 6) Av. Menocal 105, Habana. - ANN.: "Radio Progreso - La Onda de la Alegria".
 7) Av. Independencia 1320, Habana. - D. PRGR.: N.: 12.00 (exc. Mo.), 12.30 (exc. Mo), 16.30, 17.00, 23.00. - V. by letter.
 8) Finlay 4, Camagüey. - V. by QSL-card.
 9) Edif. Radiocentro, Habana. - L.P.: Dir. Gen.: Dr. G. Ortega. Dir. Tec.: M. Rivera. - D. PRGR.: N.: 10.00, 18.00, 23.00, 04.55. - ANN.: "CMQ desde Radiocentro, Habana, Territorio Libre de America". - V. by QSL-card.
 10) Apt. 541, Habana. - ANN.: "Radio Aeropuerto - Frecuencia de Oro - Emisora Internacional". - V. by QSL-card or letter.

11) San José 104, Habana. - D. PRGR.: M.w.: 11.00-07.00.
 12) Apt. Postal 7026, Habana. - L.P.: Dir. Gen.: E. Abella M. Dir. Tec.: Ing. C. Estrada. Dir. of Foreign Rel.: P. Ojead. - HOME SCE.: 11.00-05.00. N.: Every h. on the h. - FOREIGN SCE.: To Europe: 17.00-19.00 on 15300 kc/s (17.00 Spanish, 17.40 English, 18.20 French) - To No. America: 03.00-06.00 on 11770 kc/s (N. in English: 03.00, 03.40, 04.00, 05.00, 05.40. N. in French: 04.35) - To No., C., So. America (in Spanish): 19.00-03.00 on 11770 kc/s - Special SCE. for So. America: 19.00-06.00 on 11875 kc/s; 19.00-23.00, 01.00-06.00 on 11760 kc/s. - ANN.: "Aqui R. Habana Cuba". - V. by QSL-card and letter.

Medium Waves:

- 13) R. Periodico Experimental, Imprenta Nac., Habana.
- 14) Onda Popular, Paseo de Martí 260, Habana.
- 15) R. Mambi, Paseo de Martí 107, Habana.
- 16) R. Voz, Paseo de Martí 206, Habana.
- 17) Onda Musical, Radiocentro, Vedado, Habana.
- 18) Radhura, Calle L 353, Vedado, Habana.
- 19) La Voz del Inra, Plaza Civica, Habana.
- 20) Cadena Oriental de Radio, Calle L 353, Vedado, Habana.
- 21) R. Reloj, Radiocentro, M y 23, Vedado, Habana.

★ DOMINICAN REPUBLIC ★

L.T.: GMT+5 h. - Pr.L.: Spanish. - Po.: 3.015.000. - Rvrs.: 96.000. E.C.: 110/220/440 V., A.C., 60 c/s.

DIRECCION GENERAL DE TELECOMUNICACIONES

ADDR.: Trujillo, D.N. Cable: Telecom. Te.: 22244. - L.P.: Dir. Gen.: G. Saladin.

STATIONS: Approx. 11.00-05.00 (exc. where indicated). All comm. Short Waves: Call: HI—, *

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) IZ	*3245	92.44	0.5	1350	Broadc. Nacional:
2) TT	3285	91.32	1	*	La Voz Dominicana: 11.00-04.35
3) SN	3310	90.63	1	1220	Radio HIN: 09.50-13.05
4) SU	3322	90.31	1	**	R. Caribe 10.00-03.00
5) ISA	*3325	90.23	1	980	La Voz de la Reeleccion Emisora HI2P
7) 2P	3355	89.42	0.25		R. Santiago: 11.30-03.00
8) 4F	3360	89.29	1	820	R. Hit Musical: 11.00-15.00, 21.00-04.00
9) 2D	3385	88.63	1	1600	Onda Musical: 11.00-05.00
6) 2S	4780	62.76	1	1150	La Voz del Progreso: 11.00-03.00
10) 5C	4860	61.73	0.25	1250	Emisora HI9B/8B
12) 9B	*4910	61.10	0.5	1050	La Voz del Biran
13) 5V	4930	60.85	0.6	1240	R. Comercial
14) 2JP	*4970	60.36	1	1020	Ondas de Yaque: 11.00-04.00
15) 3K	4980	60.25	0.25	1450	Emisora HIMS/2MS
16) 2MS	*5010	59.88	1	580	La Voz del Papagayo
17) 3C	5030	59.64	1	790	La Voz del Tropico
18) 2L	*5055	59.36	0.5	790	La Voz Dominicana: 11.00-04.35
2) 4T	5970	50.25	7.5	*	La Voz de Oriente: 16.45-02.00
19) IJ	6025	49.79	0.1	1320	Broadc. Nacional: 11.45-04.30
1) IZ	6112	49.08	1	1350	R. dif. HI8B/9B
12) 9B	6120	49.02	1	1050	R. difusora HIG
20) IG	6130	48.94	0.25	950	La Voz de Fundacion: 16.00-24.00
21) IR	6160	48.70	0.2	1450	Broadc. Tropical: 11.00-03.00
22) 9U	6190	48.47	0.1	1240	R. Caribe 10.00-03.00
4) 2U	6210	48.31	20	**	R. Santiago: 11.00-03.00
8) 8Z	6307	47.57	1	820	Emisora HI4B/5B: 11.00-03.00
11) 5B	6325	47.43	0.25	1330	R. Caribe: 14.00-03.00
4) 3U	9485	31.63	50	**	R. difusora HIG
20) 2G	*9590	31.28	0.25	950	

Dominican Republic - El Salvador

2) 2T 9735 30.82 7.5 *) La Voz Dominicana: 11.00-04.35
4) 4U 15050 19.93 20 **) R. Caribe: 10.00-02.00
*) 620/1360/1380/1440 kc/s. **) 860/1270/1310/1340/1370/1400 kc/s
Medium Wave: Call: HI—, °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
8) GZ	550	0.5	26) RM	1120	1	4) UF	1340	1
16) MS	*580	1	27) RL	1140	0.25	1) Z	*1350	1
19) IJ	*610	0.5	6) BS	*1150	1	2) 6T	*1360	1
2) 3T	*620	10	28) FD	1160	1	4) UG	1370	1
10) DC	700	1/0.1	3) N	*1220	1	2) 8T	*1380	1/0.1
23) MD	760	0.5	29) IL	1230	0.25	4) UD	1400	1
18) L	*790	0.5	22) 8U	*1240	0.25	32) 2A	1440	0.04
8) 9Z	*820	1/0.1	13) 4V	*1240	0.25	2) 9T	*1440	0.25
4) U	*860	5	10) 4C	*1250	1/0.1	33) 5K	1440	0.25
24) 3A	910	0.25	30) T	1260	0.25	15) 2K	*1450	0.25
20) G	*950	0.25	4) UA	1270	5	21) 2R	*1450	0.25
5) SA	*980	0.75	31) 3V	1310	0.5	34) 2H	1490	0.2
14) JP	*1020	1	4) UE	1310	1	35) 1A	1490	0.25
12) 8B	*1050	1	19) HD	*1320	1	9) D	*1600	1
25) MC	1100	0.5	11) 4B	*1330	0.5			

FM: 1) HIZ 89.2 mc/s 0.06 kW - 8) HIZ 89.2 mc/s 0.25 kW - 4) HIGU 89 mc/s 0.25 kW - 2) H15T 100 mc/s 0.06 kW - 4) H17U 105 mc/s 0.25 kW.

Short Waves:

- 1) Edificio Copello, Ca. el Conde, Ci. Trujillo. - L.P.: Dir.: Ing. F. Hattton. - ANN: "Transmitem Emisora HIZ y HIZ, Ci. Trujillo, La Republica Dominicana".
- 2) Av. Ci. de Miami 8, Ci. Trujillo. Cable: Dominicana. - L.P.: Dir. Gen.: A. E. Santamaria D. - D.PRGR.: N.: 11.00, 15.00, 19.00, 21.00, 03.30 - English: 02.00-02.15, H13T/4T/2T: Ci. Trujillo: H16T/7T: Santiago; H18T: La Vega; H19T: Bona. - ANN: "Al Servicio del progreso y la cultura en general, transmite La Voz Dominicana, desde Ciudad Trujillo, Distrito Nacional Capital de la Republica Dominicana". - V. by QSL-card.
- 3) Feria de la Paz, Ci. Trujillo. Cable: Rahin. - L.P.: Dir. Gen.: P. P. Bonilla P. Dir. Tec.: J. Salazar H. - D.PRGR.: N.: 12.05, 23.35, 04.00. - ANN: "R. HIN desde la Feria de la Paz". - V. by QSL-card. Re. in Sp or E.
- 4) Ci. Trujillo. - L.P.: Pres.: J. Marti Ortero. - Stations: HIU Ci. Trujillo, HIUA Santiago, HIUG Barahona, HIUD San Juan, HIUE El Siebo, HIUF Jimani. - ANN: "R. Caribe, La Voz Antillana que da la vuelta al mundo". - V. by QSL-card. - FPL: Prgr.s in English.
- 5) Apt. 141, Santiago de los Caballeros. - V. by letter.
- 6) Av. Mella 25, 2° piso, Ci. Trujillo. - L.P.: Dir.: gen. & Dir. Tec.: R. Pacheco. D. PRGR.: N. 01.30. - V. by letter Rp. Prgr. schedule free on request.
- 7) La Romano. - L.P.: Dir.: N. Martinez.
- 8) Ca. 30 de Marzo 35, Santiago de los Caballeros. - L.P.: Dir. Gen.: L. Felipe Moscoso C. Dir. Tec.: J. E. Macdougall. - D.PRGR.: N.: 16.30, 22.45. - ANN: "Circuito de Emisoras R. Santiago, Rep. Dominicana". - V. by QSL-card. Re. in Sp or E.
- 9) 30 de Marzo esq. Jose Trujillo V. Cable: Maja. Te.: 3246. - L.P.: Dir. Gen.: M. A. Jorge A. - D.PRGR.: m.w.: 11.00-04.00. - N.: 22.45. - ANN: "R. Hit Musical, H1D-H12D, 1600 y 3385 kc/s, Santiago de los Caballeros, Rep. Dominicana". - V. by QSL-card.
- 10) P. O. Box 267, San Francisco de Macoris. Te.: 2845. H1DC: Valverde. - L.P.: Dir. Gen.: J. Raposo P. - D.PRGR.: N.: 01.00. - ANN: "Por la Cultura del Pueblo y la Prosperidad de la Patria, transmite La Voz del Progreso". - V. by QSL-card.
- 11) Ca. Maximino Gómez 14, Santiago de los Caballeros.
- 12) P. O. Box 454 Santiago de los Caballeros. Te. 2939 - L.P.: Dir. Gen.: J. L. Sanchez Dir. Tec.: J. B. Sanchez. - V. by QSL-card.-]
- 13) Barahona. - L.P.: Dir.: A. Lama.
- 14) Call El Conde 24, Ci. Trujillo. - L.P.: Dir.: J. A. Brea P.
- 15) Edificio El Rubio, 3° piso, Santiago de los Caballeros. Te.: 2144. - L.P.: Dir.: R. Candelario L. - V. by QSL-card.
- 16) Ci. Trujillo. - L.P.: Dir.: D. Sanchez.
- 17) Casa Puerto Rico, La Romano.
- 18) Ca. Abreu 30, Ci. Trujillo. - L.P.: Dir.: J. C. Pellicer. - V. by QSL-card.
- 19) Ca. Sanchez 135, San Pedro de Macoris. - L.P.: Dir.: F. M. Donastorg. - V. by QSL-card.
- 20) Edificio Yaar El Conde 90, 4° piso, Ci. Trujillo. - L.P.: Dir.: A. Cordero P. - ANN: "Radiodifusora Nacional, Emisora HIG, Republica Dominicana".
- 21) Hotel San Cristóbal, San Cristobal. - L.P.: Dir.: L. Alberti. - ANN: "Transmite La Voz de Fundación desde San Cristobal, Republica Dominicana". - V. by QSL-card.
- 22) Apt. 403, Puerto Plata. - L.P.: Dir.: L.A. Pelegrin. - V. by QSL-card.

Medium Waves:

- 23) Emisora H1MD, Peña Santiago. - 24) Emisoras Unidas, Edificio Ocaña, Arz Meriño, Ci. Trujillo. - 25) Emisora H1MC, San Cristóbal. - 26) Emisora H1RM, S. Francisco de Macoris. - 27) Emisora H1RL, Santiago. - 28) La Voz del Atlantico, Ca. Pres. Trujillo 21, Puerto

Plata. - 29) La Voz del Camu, Av. José Trujillo Valdez 2, La Vega. - 30) R. Cristal, Las Mercedes 12, Ci. Trujillo. - 31) R. Bani - La Voz del Sur, Uladislao Gonzales 12, Bani. - 32) La Voz de Quisqueya, San Juan. - 33) Emisora H1SK, Ci. Trujillo. - 34) La Voz de la Alegria, Ca. Real 119, Ci. Trujillo. - 35) La Voz del Cibao, Ca. Cardona 81, Moca.

★ EL SALVADOR ★

L.T.: GMT +6 h. - Pr.L.: Spanish. - Po.: 2,400,000. - Rcvrs.: 42,000. - E.C.: 110/220 V., A.C., 60 c/s.

GOVERNMENT DEPT. FOR BROADCASTING

ADDR.: Ministerio del Interior, Palacio Nacional, San Salvador. - L.P.: Ministro del Interior: Sr. D. Francisco José Sol. STATIONS: All st.'s comm. exc. R. Nacional.

Short Waves: Call: YS—, * =inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
23) CB	4840	61.98	1175	La Voz del Pacifico.	
1) W	*5985	50.13	1	930 R. Santa Ana	
2) S	*6010	49.92	5	655 R. Nacional de El Salvador	
3) C	*6096	49.21	1	1015 Ondas Populares y Deportivas	
4) P	*6150	48.78	0.3	780 La Voz de Cuscatlan	
5) HQ	*6170	48.62	0.2	950 La Voz del Progreso	
6) UA	6190	48.47	1	1050 R. Mil Cincuenta: 12.00-06.00	
7) V	*9545	31.43	1	1280 La Voz del Comercio	
2) S	9555	31.40	5	655 R. Nac. de El Salvador: 18.00-04.00	
8) Y	*11725	25.58	1	970 R. Victoria	
9) AX	*11950	25.10	1	800 La Voz Panamericana	

Medium Waves: Call: YS—, °=Short Waves. * =Under constr.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
10) ABC	560	5	17) QJ	910	10*	22) AR	1160	1*
11) DM	580	5	1) W	*930	5	23) CB	*1175	1
2) S	*655	10	5) HQ	*950	1	24) HP	1200	0.25
12) QR	700	5	8) Y	*970	1	25) MA	1230	0.5
13) KL	760	0.5	18) DF	990	10	26) I	1250	3
4) P	*780	5	3) C	*1015	10	7) V	*1280	1*
9) AX	*800	5	6) U	*1050	10	27) HX	1300	0.5*
14) DR	820	1	19) EB	1080	10	28) LA	1330	1*
15) F	840	0.5	20) G	1130	2*	29) JA	1400	1
16) O	870	1*	21) CF	1150	1	30) HF	1430	0.5*
						31) JL	1450	10*

FM: 89 mc/s (YSRV) 1 kW - 90 mc/s (YSU) 0.25 kW - 101 mc/s (YSU) 0.05 kW - 102 mc/s (YSR) 0.25 kW.

Radio television YSU S.A. (Comm.)

(St.'s 1), 6), 10) and 12). - ADDR.: Apt. Postal 1050, San Salvador. Te.: 1050 and 7500. Cable: YSUSA. - L.P.: Pres.: A. Soler Serra. Gen. Mgr.: O. A. Bolaños. Dir. Tec.: (Radio): E. Gamero. (TV): R. H. Rahn. - D.PRGR.: All st.'s: 12.00-06.00. N.: every 15 min. - ANN: Sp.: "Radiocadena YSU 14 años de prestigio para la Radiofucion Nacional". V. by QSL-card and letter. Re. in Sp, E. Prgr. schedule free on request.

Cadena radial Salvadoreña S.A.

(St.'s 1), 14), 19). - ADDR.: Edif. Torre Lopez 8° piso, San Salvador. Cable: CARASAL. Te.: 3331. - L.P.: Pres.: A. Alfaro. - D.PRGR.: All st.'s: 12.00-06.00.

Short Waves:

- 1) Santa Ana. - V. by QSL-card.
- 2) Alma Cuscatleca Altos del Edificio del Teatro Nacional, San Salvador. - L.P.: Mgr.: D. M. de J. Salazar. Dir. Prgr.: R. S. Mendoza. Dir. Adm.: A.A. Mixco. Dir. Tec.: G. C. Vides. - D.PRGR.: N.: 18.00, 21.00, 22.00, 00.15, 02.00, 03.00. - Wrp.: 18.00, 03.00 (exc. Sun.). - ANN: "Transmite R. Nacional de El Salvador, en la América Central". - INT.-SIG.: Four notes on xylophone. - V. by QSL-card and prgr. schedule.
- 3) 29 Ca. Oriente 218, San Salvador. - ANN: "Esta es YSC, R. 1015 Ondas Populares y Deportivas en San Salvador, Centro América, Laboremos por la Paz, la Cultura y el Deporte".
- 4) Cojutepeque, Dept. de Cuscatlan.
- 5) San Miguel.
- 6) Apt. Postal 1050, San Salvador. - V. by letter.
- 7) Santa Ana, Dept. de Santa Ana.
- 8) Ca. Gerardo Barrios 627, San Salvador.
- 9) 2a Av. Norte 319, San Salvador. Cable: YSA. - L.P.: Dir. Gen.: O. A. Bolaños. Dir. Tec.: J. V. Moran. - D.PRGR.: 12.00-05.00. - N.: 12.30, 19.30.

Medium Waves: D.PRGR.: Approx. 12.00-05.00.

- 10) Radioemisora Salvadoreña, San Miguel.
- 11) R. difusora YSDM, San Miguel.
- 12) R. Morazan, Colonia Alfaro, Ci. de Mejicanos.
- 13) R. Universal, 4a Ca. Oriente 228, San Salvador.
- 14) Ondas Tropicales, Ave. Independencia Sur 6, Santa Ana.
- 15) R. Vanguardia, 7a Ca. Oriente 508, San Salvador. - D.PRGR.: 18.00-20.00, 00.00-04.00.

- 16) La Voz de la Democracia, 6a Ca. Oriente 28, San Salvador.
 17) R. dif. YSQJ, San Salvador.
 18) La Voz del Tropic, 4a Ave. Norte 230, San Salvador.
 19) La Voz de Latinoamericana, 2a Av. Norte 230, San Salvador.
 20) R. Chaparrastique, San Miguel.
 21) Ondas Orientales, 10A. Calle Poniente 17, S. Miguel.
 22) R. America, San Salvador.
 23) La Voz del Pacifico, 6a Av. Norte 15, Sonsonate.
 24) R. Ciros, 10a Calle Poniente 314, San Salvador.
 25) La Voz Suprema de Occidente, 25 Ca. Oriente 10, Santa Ana.
 26) R. Emperador, 3a Ca. Poniente 419, San Salvador.
 27) R. Christal, Sonsonate.
 28) R. Musical, Santa Ana.
 29) La Voz del Litoral, Usulután.
 30) R. Caribe, Cotepeque, Dept. de Cuscatlan.
 31) R. Presencia, San Salvador.

★ GUADELOUPE (French West Indies) ★

L.T.: GMT ÷ 4 h. - Pr.L.: French. - Po.: 250.000. - Rcvrs.: 6.500. - E.C.: 127/220 V, A.C., 50 c/s.

RADIO GUADELOUPE (R. diff. Télévision Française)

ADDR.: Basse-Terre.

HOME SCE:

Pointe-a-Pitre 650 kc/s 20 kW } W. 10.20-11.30, 16.15-18.00, 22.45-
 Basse-Terre 1420 - 4 - } 01.30 (Sat. 16.15-01.30) Sun. 10.20-01.30

ANN.: "Ici Basse-Terre, Radiodiffusion Française". - INT.-SIG.: Guitar. - V. by QSL-card or letter. R.p.



★ GUATEMALA ★

L.T.: GMT ÷ 6 h. - Pr.L.: Spanish. - Po.: 3.800.000. - Rcvrs.: 45.000. - E.C.: 110/220 V, A.C., 60 c/s.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL

ADDR.: Edificio de la Tipografía Nacional, Calle 18 de Septiembre 6-72, Zona 1, Guatemala. Cable.: Tevenac. Te.: 23318. - L.P.: Dir. Gen.: C. Talavera y Murga. Sub-Dir. Gen.: L. Orantes Alfaro. Chief of TV Prod.: M. Piedra Santa.

STATIONS: All st. comm. exc. 2), 40) (Rel.), 13), 15), 19), 20), 26), 47) (Go.).

Short Waves: Call: TG-----.

Call	kc/s	m	kW	m.w.	Name and h. of tr.**)
1) LAB	*4900	61.22	0.5		R. Victoria
2) NA	5952	50.40	5	720	R. Cultural: 12.00-03.00
3) AR	5980	50.17	1	1270	R. Quetzal: W. 13.00-04.30, Sun. 13.00-01.00.
4) JA	5990	50.08	5	880	R. Nuevo Mundo: 12.00-06.00
5) TA	6000	50.00	3	1390	R. Sonora: 12.00-06.00
6) DA	6020	49.83	1	1070	La Voz de Occidente: 12.00-06.00
7) TQ	6030	49.75	5	810	R. Internacional: W. 12.30-06.00, Sun. 14.00-03.00
8) CO	6040	49.67	0.5	1470	La Voz del Trópico: 12.00-05.00
9) XB	6050	49.59	0.8	1040	R. Centro Musical: 12.00 (Sun. 13.00)-05.00
10) XX	6060	49.50	1.5	850	R. Ciro's: W. 12.30-06.00, Sun. 14.00-05.00
11) RLA	6060	49.50	1	1180	R. Landívar: 12.00-04.00
12) PA	6070	49.42	0.4	575	R. Palmeras: W. 12.00-05.00, Sun. 14.00-03.00
13) SM	6080	49.34	1.5	860	R. Nacional San Marcos: W. 13.00-04.00, Sun. 15.00-24.00
14) OA	6100	49.18	1	1140	La Voz de las Américas: 11.00-06.00
15) QA	6110	49.10	0.5	1310	R. Nacional de Quezaltenango: W. 13.00-04.30, Sun. 18.00-02.00
16) HC	6140	48.86	0.5	780	R. Universal: 12.00-06.00
17) AZ	6150	48.78	0.5	950	R. Continental: 12.00-06.00 (Sun. 01.00)
18) ZA	6160	48.70	0.25	1170	R. Club: 12.00-06.00 (Sun. 05.30)
19) WB	6180	48.54	1	640	R. Nacional: 11.55-06.15 (Sun. 06.00)
21) KN	6200	48.39	0.1	1100	R. Latina: W. 12.30-05.00, Sun. 14.00-04.00
20) RT	6255	47.96	0.5		R. Nacional Tikal: W. 01.00-04.00 Sun. 01.30-03.30
2) NB	9668	31.03	5	720	R. Cultural: 03.00-04.00
19) WA	9760	30.74	10	1520	R. Nacional: 11.55-06.15 (Sun. 06.00)

Call	kc/s	m	kW	m.w.	Name and h. of tr.**)
15) QB	11700	25.64	1	1310	R. Nacional de Quezaltenango: as 6110 kc/s
22) CX	*11750	25.53	0.5	1080	R. Cristal
2) NC	*11850	25.32	5	720	R. Cultural

*) Currently inactive; **) Although times are in GMT, calendar days apply to Guatemala only.

Medium Waves: Call: TG-----.				° Short Wave. 1 also FM.			
Call	kc/s	kW		Call	kc/s	kW	
23) BOL	560 ¹ 10		32) TL	920 5	41) LG	1250 0.5	
12) PR	*575 0.4	17) AX	*950 ¹ 0.5	3) AQ	*1270 1		
24) Y	590 ¹ 10	33) CQ	980 1	26) TU	1280 0.5		
25) RT	610 0.25	34) AH	1000 0.2	42) AJ	1280 0.7		
26) GA	620 1	35) UX	1020 10	43) MU	1300 0.02		
19) W	*640 ¹ 10	9) XA	*1040 ¹ 10	15) Q	*1310 1		
27) LM	660 0.5	36) AF	1060 2	43a) MG	1360 0.6		
28) RS	680 2	6) D	*1070 0.35	5) T	*1390 10		
29) HR	700 5	22) C	*1080 0.5	44) AC	1400 0.5		
2) N	*720 5	21) K	*1100 1	45) GH	1410 0.5		
30) RF	750 0.5	37) RR	1120 0.8	46) RP	1420 0.5		
31) BX	770 0.5	14) O	*1140 ¹ 0.8	47) MS	1450 0.5		
16) HB	*780 1	18) Z	*1170 0.5	48) AG	1460 0.5		
7) TO	*810 5	11) RL	*1180 2	8) COA	*1470 0.5		
10) X	*850 1.5	38) ED	1210 1	49) IZ	1470 0.5		
13) SM	*860 1.5	39) LL	1230 0.5	50) HU	1480 0.5		
4) J	*880 ¹ 15	40) L	1240 1	19) WC	*1520 1		
				51) RE	1540 1		

Short Waves:

- 1) Mazatenango, 2) Apt. 601, Guatemala (Owned by Central American Mission, 3611 Congress Ave., Dallas 19, Texas, USA) - L.P.: St. Dir.: G. Liebig. Dir. Prgr.: D. Rutledge. Dir. Tec.: E. Yoder - D. PRGR.: Spanish: On 720/5952 kc/s: 12.00-03.00. English: On 9668 kc/s: 03.00-04.00 - V. by QSL-card. R.p.
- 3) 12 Av. 26-27, Z-5, Guatemala - L.P.: Dir.: M. Tulio de la Foss Jr. - ANN.: "R. Quetzal, La Emisora símbolo en Guatemala C.A., 1270 kc/s Onda Larga, 5980 kc/s Onda Corta".
- 4) 6a. Ave. 10-45, Z-1, Guatemala - L.P.: Dir. Gen.: H. Gonzales J. Dir. Tec.: J. de la Cerda Wyld - ANN.: "Esta es R. Nuevo Mundo, La Emisora de los artistas nacionales" - V. by letter. Re. in Sp. Prgr.schedule on request.
- 5) 5a. Ave. 16-38, Guatemala - L.P.: Dir.: M. R. Tejada - ANN.: "Con diez mil watts transmite en Guatemala, R. Sonora la estación que da la hora, 1390 kc/s Onda Larga, 6000 kc/s Onda Corta".
- 6) 7a. Ave. 0-26, Zona-1, Quezaltenango - L.P.: Dir. Gen.: M. C. Romero de Rios. Dir. Tec.: J. Angel Yllescas F. - ANN.: "T.G.D. 1070 kc/s Onda Larga... T.G.D.A. 6020 kc/s Onda Corta... R. La Voz de Occidente en Quezaltenango, Guatemala, C.A." - V. by letter. Re. in Sp.
- 7) 12 Ca. 5-62, Z-1, Guatemala - L.P.: Owner & Dir.: J. Monteros L. ANN.: "T.G.T.O. R. Internacional de Guatemala en 810 kc/s Onda Larga, 6030 kc/s Onda Corta, Auditorio en toda la República, Mejor Música y menos Bla, Bla, Bla..." - INT.-SIG.: Electrical Xylophone - V. by QSL-card.
- 8) 7a. Ave. 4a. Ca. Cotepeque, Quezaltenango.
- 9) Pasaje Aucinena 8-27, Z-1, Guatemala - L.P.: Dir.: J. A. Fernandez - ANN.: "T.G.X.A. R. Centre Guatemala 1040 kc/s Onda Larga, 6050 kc/s Onda Corta" - V. by QSL-card or letter.
- 10) 8a. Ca. 2-28, Guatemala - L.P.: Dir.: H. H. Moncrieff - ANN.: "R. Ciro's la emisora musical de Guatemala, TGX 850 kc/s Onda Larga, 6060 kc/s Onda Corta TGXX" - V. by QSL-card or letter.
- 11) 4a. Ave. 14, Quezaltenango - L.P.: Dir. Gen.: C. A. Diaz. Mgr. & Dir. Tec.: H. Diaz M.
- 12) Centre de Recreo Km. 58 Autopista San Jose, Guatemala - L.P.: Dir.: C. Humberto M.
- 13) Palacio Maya, San Marcos - L.P.: Dir.: W. A. López S.
- 14) 2a. Ave. 13-39, Z-1, Guatemala - L.P.: Dir.: J. Flamenco y Coterio - ANN.: "TGO La Voz de Las Americas" - V. by QSL-card.
- 15) 14 Ave. C-47 Zona 1, Quezaltenango - L.P.: Dir.: F. S. Valdez. Dir. Prgr.: G. E. Izaguirre M. Dir. Tec.: C. A. Linde S. - ANN.: "Difunden las estaciones TGO R. Nacional Quezaltenango Guatemala" (followed by 4 Xylofon-notes) - V. by QSL-card or letter. Re. in Sp. - PUB.: Monthly prgr.schedule free on request.
- 16) Edificio Morales 7a. Ave. 9, Zona 1, Guatemala - L.P.: Dir.: M. T. Conde - ANN.: "R. Universal y R. Central en cadena" - V. by QSL-card or letter.
- 17) 13 Ca. 12-26, Guatemala - L.P.: Dir.: R. Viscaino R. - ANN.: "Difunden las emisoras del sonido perfecto y alta fidelidad R. Continental desde la Capital de Guatemala, una audición perfecta en toda la República" - V. by QSL-card or letter.
- 18) 4a. Ave. 12-74, Z-1, Guatemala - L.P.: Dir.: H. E. Sagastume.
- 19) Calle 18 de Septiembre 6-72 Zona 1, Guatemala - L.P.: Dir.: Carlos Talavera y Murga - ANN.: "Esta es TGW R. Nacional de Guatemala, Una estación al servicio de la Patria" - V. by QSL-card or letter.
- 20) Flores Peten - L.P.: Dir.: G. H. Morales.

Guatemala - Haiti

- 21) 12a. Ave. 28-35, Guatemala - L.P.: Dir.: R. Contreras R. - V. by QSL-card.
 22) 5a. Calle 1-68, Z-1, Guatemala - L.P.: Dir.: J. Quiñenoz Castillo.
Medium Waves: Approx. **D. PRGR.:** 12.00-05.00.
 23) R. Cinco Sesenta, 8a. Ave. 9-23, Z-1, Guatemala - **D. PRGR.:** 12.00-06.00.
 24) R. Progreso, Ca. Marti 10-39, Z-2, Guatemala - **L.P.:** Dir.: J. Humberto Andirino G. - **D. PRGR.:** 24 h. N.: every 15 min. V. by letter.
 25) R. Tacana, "La Voz San Pedrana", San Pedro Sacatepequez, San Marcos - **L.P.:** Dir.: J. A. Mansilla.
 26) R. El Campo, 12 Ca. 5-62, Z-1, Guatemala - **L.P.:** Dir.: J. A. González A. - **D. PRGR.:** 12.00-04.00.
 27) R. Seis Sesenta, Tiquistite, Escuintla - **L.P.:** Dir.: J. González M.
 28) R. Sur, Escuintla - **L.P.:** Dir.: J. I. Soto.
 29) R. Mundial, 2a. Ave. 6-45, Z-1, Guatemala - **L.P.:** Dir.: M. P. Quintana - **D. PRGR.:** 24 h.
 30) R. Faro Aviateca, 1a. Ca. 6-90, Z-9, Guatemala - **L.P.:** Dir.: G. Andreu C. - **D. PRGR.:** W. 13.00-15.00. Sun. 14.00-01.00.
 31) R. Corporacion, Edif. "Chavez", Quezaltenango - **L.P.:** Dir.: B. Molina de Linde - **D. PRGR.:** W. 12.00-06.00. Sun. 14.00-02.00.
 32) La Voz de la Telefonken, 4a. Ca. 6 20 Ave., Z-14, Guatemala. Cable: Telefonken - **L.P.:** Dir. Gen.: E. Mayorga L. Mgr.: W. Proesamer S. Dir. Tec.: H. Möller A. - **D. PRGR.:** 12.30-06.00 - N.: 12.30 - **Prgr. in German & English:** Mo. 03.00-04.00 - **INT.-SIG.:** Gong.
 33) R. Central, 7a. Ave. 9a. Ca., Edif. Morales, Z-1, Guatemala - **L.P.:** as 16).
 34) R. Mil, 6a. Ave. 15-40, Z-1, Guatemala - **L.P.:** Dir.: G. Galán P. - **D. PRGR.:** 12.30-05.00. - **ANN.:** "Es R. Mil naturalmente".
 35) R. Panamericana, Carretera Roosevelt, Villa Victoria, Z-7, Guatemala - **L.P.:** Dir.: J. Paniagua Salvatierra - **D. PRGR.:** 11.55-06.00 - **ANN.:** "Esta es R. Panamericana de Guatemala".
 36) R. Indiana, Av. Libertad, Mazatenango - **L.P.:** Dir.: G. Salazar F. - **D. PRGR.:** W. 11.30-04.30. Sun. 13.30-24.00.
 37) R. Reloj, 16 Ca. 3-32, Z-1, Guatemala - **L.P.:** Dir.: M. Johnston Jr. - **D. PRGR.:** 12.45-04.00 (Sun. 05.00).
 38) R. Mil Doscientos Diez, 3a. Ave. 13-07, Z-1, Guatemala - **L.P.:** Dir.: J. Archila M. - **D. PRGR.:** W. 12.00-06.00. Sun. 13.00-05.00.
 39) R. Constelacion, 10a. Ca. 6-22, Z-1, Guatemala.
 40) R. Victoria, 2a. Ave. Norte 12, Mazatenango - **L.P.:** Dir.: C. Salazar Jr. Dir.: A. Medina.
 41) R. Jumay "La Voz de los Mayas", 9a. Ca. 0-02, Z-1, Guatemala - **L.P.:** Dir.: L. E. Gonzalez M. - **D. PRGR.:** W. 12.00-06.00. Sun. 13.00-02.00.
 42) R. Tropicana, 4a. Ave. 19 Ed. Díaz Gomar, Escuintla - **L.P.:** Dir.: M. A. Mendez F. - **D. PRGR.:** 11.00-05.00 (Sun. 02.00).
 43) La Voz de la Buena Musica, 13 Ca. 9-62, Z-1, Guatemala - **L.P.:** Dir.: M. Wunderlich - **D. PRGR.:** 13.00-05.00.
 43a) R. Nacional Matías de Galvez, Pto. Matías de Galvez, Izabal - **L.P.:** Dir.: M. Gonzalez U. - **D. PRGR.:** 13.00-05.00.
 44) R. Cultural de Colombia, Colombia, Quezaltenango - **L.P.:** Dir.: O. Garcia U.
 45) R. Xelajú, 13 Ave. 7-18, Z-1, Quezaltenango - **L.P.:** Dir.: G. Hurtado A. - **D. PRGR.:** W. 12.30-04.00. Sun. 14.00-02.00.
 46) La Voz de la Eterna Primavera, 8a. Ca. 3-18, Z-1, Guatemala - **L.P.:** Dir.: M. L. Andreu de Zecena - **D. PRGR.:** W. 12.00-05.30. Sun. 14.00-20.00.
 47) R. Nacional, 4a. Ave. 8a. Ca. 5, Mazatenango - **L.P.:** Dir.: R. Samayoa R. - **D. PRGR.:** W. 13.00-20.00, 00.00-04.00. Sun. 19.00-23.00.
 48) La Voz de Huehuetenango, Apt. 13, Huehuetenango - **L.P.:** Dir.: M. Guzmán M. - **D. PRGR.:** W. 13.00-23.30, 01.00-04.00. Sun. 16.00-22.00.
 49) La Voz del Atlántico, Colonia Gamero, Z-6, Guatemala - **L.P.:** Dir.: F. Monteagudo.
 50) R. Hunapuh, Antigua - **L.P.:** Dir.: C. Ruben Cabañas - **D. PRGR.:** W. 13.00-04.00. Sun. 16.00-24.00.
 51) R. Modelo, "La Voz de Retalhuleu", Ca. Ferrocarril, Retalhuleu.

★ HAITI ★

L.T.: GMT+5 h. - **Pr.L.:** French, Creole. - **Po.:** 3.418.333. - **Revs.:** 11.000. - **E.C.T.:** 110/120 V., A.C., 60 c/s.
STATIONS: Comm. exc. 1), 8), 9) (Religious).
Short Waves: Call 4V—, LV=La Voix. WI=West Indies.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) U	2410	124.5	0.25	780	R. Lumiere: 10.30-13.00, 22.00-03.30. Sun. 10.30-03.00
2) GS	5020	59.76	0.12		R. Indépendance: 11.00-14.00, 17.00-20.00, 23.00-02.30
3) PM	5040	59.52	0.225		R. Capois la Mort: 11.00-19.00, 23.00-03.00
4) RM	5060	59.29	0.4		LV des Gonaives: 11.00-13.00, 17.00-19.00, 22.00-03.00
5) CB	5740	52.26	0.3		LV du Sud: 19.30-03.00

Call	kc/s	m	kW	m.w.	Name and h. of tr.
7) B	5980	50.17	7.5	1080	R. Commerce: W. 11.00-14.00, 22.00-03.30. Sun. 12.00-24.00.
6) EB	6005	49.96	0.15	1050	R. Caraibes: 10.00-05.00
13) CP	6060	49.50	0.15	1490	LV du Nord: 12.00-15.00, 20.30-01.30.
1) O	6090	49.26	0.25	700	R. Lumiere: as 2410 kc/s
8)	6100	49.18	0.54		LV de la Vie Marie: 11.30-12.00, 22.30-23.30 (Mo. 00.00-00.30)
9)	6120	49.02	2.5	1035	LV Evangélique: 11.00-14.00, 16.45-01.00 2)
10) WA	6155	48.74	0.25		R. Citadelle: 12.00-15.00, 18.30-03.00
11) SC	6178	48.55	0.2		LV de St. Marc: 11.00-01.00
12) HW	6200	48.39	1	1330	R. Haiti: 11.00-04.00
7) C	*9485	31.63	7.5	1080	R. Commerce
9) EH	9770	30.71	0.4	1035	LV Evangélique: 11.00-14.00, 16.45-01.00 1)
12) RW	*15240	19.69	1	1330	R. Haiti
1) Sat.-Mo.	04.00.	*)	inactive.		

Medium Waves: Call: 4V—, °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
14)	590	0.065	6) AB	*1050	0.25	13) EA	*1490	1.0
1) I	° 780	1	7) A	*1080	1	19) S	1385	0.5
15) CD	980	0.3	17) RD	1185	0.25	20) GM	1430	1
16)	1010	0.25	18) YM	1250	0.6			
9) EH	*1035	2.5	12) W	*1330	1.5			

Short Waves:

- B. P. 71, Cayes. - **L.P.:** Dir. Gen.: L. Markwood. Dir. Tec.: D. Hartt. - **D. PRGR.:** N.: 12.00, 12.30, 00.00, 00.30, 01.50. - **Wrp.:** 12.30, 00.30. - **L.L.:** English: Mo., Wed. 11.35, 01.00. Spanish: Thurs.-Sat. 11.35, 01.00. - **V. by letter.** - **PUB.:** Prgr. sched. by request.
- Gonaives. - **ANN.:** "Ici Radio Indépendance, Poste 4VGS à Gonaives, Rép. d'Haiti, Grandes Antilles". - **V. by QSL-card.**
- Port de Paix.
- B. P. 112, Gonaives. - **ANN.:** "Ici La Voix des Gonaives, Radiodiffusion populaire émettant des Gonaives, Haiti, Grandes Antilles". - **V. by letter.**
- Cayes. - **D. PRGR.:** N.: 20.00, 22.00, 00.30, Sun. 21.00.
- 23 ruelle Chavannes, Port-au-Prince. - **L.P.:** Dir.: A. Brown. - **V. by letter.**
- B. P. 1143, Port-au-Prince. Cable: Radioco. - **D. PRGR.:** English: Sun. 22.00-22.30 ("Glimpses of Haiti"), 23.30-24.00 ("Paris Star Time"). - **ANN.:** "Ici Radio Commerce". - **V. by QSL-card.**
- Èveché du Cap Haïtien, Cap Haïtien. - **L.P.:** Dir. Gen.: A. Jamier. Dir. Tec.: F. Sénécal. - **D. PRGR.:** N.: 11.30, 23.00. - **ANN.:** "Ici la Voix de l'Ave Maria".
- R. Station 4VEH, Box 1, Cap Haïtien. - Cable: "Ormiso" **L.P.:** Dir. Gen.: Dr. E. Erny. Mgr. & Dir. Tec.: M. E. Picazo. Dir. Prgr.: Miss M. Stockton. - **D. PRGR.:** English: D. 11.00-14.00¹, Sun. 19.00-20.30¹, Sat.-Mo. 01.00-04.00². N. 1115 (Sun), 12.00, 01.00. French & Creole: D. 16.45-19.00², 23.00-01.00². N. in French: 17.00, 23.00. Spanish: D. 21.00-23.00¹. N.: 22.00 - Chinese: D. 20.30-21.00¹. Music: W. 19.00-20.30¹. ¹) to We Indies; ²) to Haiti; ³) to No. America.
- DX-Prgr.:** Listeners. Post: Sat. 03.00-03.30 - **Wrp in French:** 17.15. **ANN.:** E.: "This is R 4VEH, the Evangelistic Voice of the West Indies". F.: "Ici R. 4VEH, La Voix Evangélique des Antilles. INT.-SIG.: gong.

ADV.

The Evangelistic Voice of the West Indies is owned and operated by the **ORIENTAL MISSIONARY SOCIETY**, an internationally known organization with missionary work in the Far East, Europe, Africa and Latin America. Our aim is to reach "AROUND THE WORLD WITH THE GOSPEL".

V. by QSL-card or letter Rp. preferred but not required. Re in E, Sp., F. - PUB.: Prgr. schedule free on request - **F.P.L.:** New 5 or 10 kw mw. st. early 1962.

10) Cap Haïtien. - **ANN.:** "Ici Radio Citadelle, Poste 4VWA au Cap Haïtien, Capitale touristique de la Rép. d'Haiti, Grandes Antilles". - **V. by QSL-card.**

11) Rue Louverture 158, St. Marc.

12) B. P. 737, Port-au-Prince. - **L.P.:** Dir. Gen.: C. R. Widmaier. Dir. Tec.: H. Widmaier. - **D. PRGR.:** N.: 11.45, 14.00, 15.00, 16.00, 17.45, 19.00, 20.00, 21.00, 23.45, 02.30. - **English:** Every last Sun. of the month 23.00-23.30. - **ANN.:** "Ici R. Haiti, La station des Vadelettes, et la vedette des Stations, a Port-au-Prince". - **INT.-SIG.:** Gong (4notes)



V. by QSL-card. Re. in F, E.

13) Cap Haitien. - ANN.: F.: "Ici La Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, affilié a la chaîne de la Paix des Nations Unies..." - Spanish: "La Voz del Norte" - English: "The Voice of the North".

Medium Waves:

- 14) Port-au-Prince.
15) R. Carillon, Rue Dr. Aubry, Port-au-Prince.
16) Petionville Broadc. System, Petionville.
17) R. Tropiques, Laleu, Port-au-Prince.
18) Radiodiff. Haitienne, Ruelle Jeanty, Port-au-Prince.
19) R. Port-au-Prince, Stade Sylvio Cator, Port-au-Prince. - ANN.: "Ici Port-au-Prince, Poste 4VS". - V. by letter.
20) Magloire Broadc. Circuit, Rue Americaine, Port-au-Prince. - D. PRGR.: 16.00-03.00.

★ HONDURAS (British) ★

L.T.: GMT ÷ 6 h. - Pr.L.: English, Spanish. - Po.: 90.000. - Rcvrs.: 2400. - E.C.: 110/220 V., A.C., 60 c/s.

BRITISH HONDURAS BROADCASTING SERVICE (Go.)

FL.: By state and license fees. - ADDR.: P.O. Box 315, Belize. Cable: Incom. Te.: 382. - L.P.: Dir.: G. V. de Freitas. Dir. Prgr.: A. L. Ayuso.

HOME SCE.: 830 kc/s 361 m 5 kW - 3300 kc/s 90.85 m 5 kW: English: W.: 12.30-14.00, 18.00-18.40, 00.00-04.10. Sun.: 12.30-18.40, 00.00-04.20. - N.: 13.00, 18.30, 01.00, 02.00. - Wrp.: 18.30, 01.00, 04.00. - Rel.: D. 12.30. Sun. 17.30. Mo. 03.30. Tues. 03.45. Spanish: 18.40-18.50, 23.00-24.00. N., Wrp.: 18.40, 23.45.

ANN.: E.: "This is the British Honduras Broadcasting Service". - Sp.: "Este es el Servicio Radiodifusor de Honduras Británica". - INT.-SIG.: At opening: Nat. Anthem. At Closing: Greensleeves. - V. by QSL-card. R.p. - PUB.: Prgr.sched. weekly. Free to local listeners. Overseas listeners prepayment of postage 10 c. pr. copy.

★ HONDURAS (Rep.) ★

L.T.: GMT ÷ 6 h. - Pr.L.: Spanish. - Po.: 2.000.000. - Rcvrs.: 50.000. - E.C.: 115/220 V., A.C., 60 c/s.

DIRECCION GENERAL DE COMUNICACIONES

ELECTRICAS - ADDR.: Edif. Comunicaciones Electricas, Tegucigalpa. Cable: Gentel.

L.P.: Dir. Gen. de Com. Electricas: Ing. F. C. Garcia.

STATIONS: All st.'s comm. exc. 3) Rel. Cultural. Call: HR—.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) D4	4755	63.03	0.5		La Voz de las Colinas: 19.00-21.00
2) QN3	4905	61.16	0.5	1150	La Voz del Atlántico: 15.00-03.00
3) VS	4940	60.73	1	925	La Voz de Suyapa: 11.15-14.30, 17.30-20.00, 23.00-03.00
4) QW	4995	60.06	0.5	1420	R. Juventud: 13.00-05.00
5) N	5873	51.05	5	670	La Voz de Honduras: 12.00-05.00
6) WW	5972	50.22	1	1170	La Voz de Centro América: 11.00-06.00
7) P1	5995	50.04	1	1400	El Eco de Honduras: 13.00-04.00
8) QR4	6005	49.96	0.3	1320	La Voz del Pueblo: 13.00-05.00
9) OW2	6020	49.83	1	845	R. Monserrat: 12.00-04.00
10) TL2	6035	49.71	1.5	980	R. Tegucigalpa: 12.00-06.00
11) LP3	6050	49.59	0.5	610	R. América: 11.00-06.00
12) YN4	6060	49.50	0.3	740	La Voz del Merendón: 13.00-04.00
13) MH5	6075	49.38	0.5	1500	La Voz del Junco: 11.30-04.00
14) NQ4	6085	49.30	1	775	R. Morazan: 13.00-04.00
15) XW2	6110	49.10	1	1200	R. Comayagüela: 12.00-04.00
16) Q4	6125	48.98	1		R. Suyapa: 11.55-05.00
17) ME2	6135	48.90	0.25	1350	La Voz del Patio: 13.00-05.00
18) XN4	6145	48.82	0.3	1040	R. Concordia: 12.00-06.00
19) UC	6155	48.74	2	865	R. Centro: 12.00-06.00
20) TW4	6175	48.58	1	715	Unión R. Hondureña: 12.00-05.00
21) MT4	6185	48.50	0.5	640	R. Molino Rojo: 12.00-04.00
22) D2	6195	48.43	0.5		La Voz de Atlántida: 12.00-04.00
23) RH5	9543	31.44	0.5	1370	La Voz de Occidente: 13.00-05.00 ¹⁾
24) ZN	9610	31.22	1	890	R. Pinares Honduras: 12.00-06.00
3) VS	9705	30.91	1	925	La Voz de Suyapa: as 4940 kc/s

1) reported on 5960 kc/s.

Medium Waves: Call: HR—, ° = Short Waves. ¹⁾ also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
11)	°	610 ¹ 10	24) ZN	°	890 10	8)	°	1320
21)	°	640	3) VS	°	925 ¹ 1	17)	°	1350
5)	°	670	10)	°	980	23)	°	1370
20) TG	°	715	18)	°	1040	7) PX	°	1400 2
12)	°	740	2)	°	1150	4)	°	1420
14)	°	775	6)	°	1170	26) LV	°	1460 0.5
9)	°	845	15)	°	1200	13)	°	1500
19)	°	865	25) XA	°	1280 0.3			

Short Waves:

- 1) El Paraiso.
2) Barrio La Curva, Puertos Cortés.
3) Apt. Postal 480, Tegucigalpa. - L.P.: Dir. Gen.: Rev. J. M. Molina S. Dir. Tec.: O. Tróchez A. - D.PRGR.: m.w.: 11.15-03.00. N.: 12.00, 24.00. - ANN.: "R. Internacional, La Voz de Suyapa, Emisora Católica de Honduras". - V. by QSL-card. Re. in Sp., E. or F.
4) A. Griffin h., Barrio El Centro, Tela.
5) Av. Lempira, Tegucigalpa OC.
6) Apt. 120, San Pedro Sula.
7) Apt. 24, San Pedro Sula. Cable: Radio Sula. - L.P.: Dir. Gen.: A. A. Diaz Z. Mgr.: F. Diaz Z. Dir. Tec.: L. C. Gomez. - D.PRGR.: N.: 17.00, 01.15. English Lesson: 23.30-23.45. - ANN.: "Estas son HRP1 y HRPX El Eco de Honduras, desde San Pedro Sula, Honduras, CA.". - V. by letter. Re. in Sp., E. and F.
8) Av. de La Paz, Tegucigalpa DC.
9) Tegucigalpa DC. Cable: Monserrat. - ANN.: "HROW R. Monserrat, la emisora de los hondureños en Tegucigalpa, Honduras, Centro América". - V. by QSL-card.
10) E. Chahin, Tegucigalpa DC.
11) Apt. Postal 259, Tegucigalpa. Te.: 1371. - L.P.: Mgr.: R. Silvio P. Dir. Tec.: L. Carlos G. - D.PRGR.: N.: 12.00, 18.30, 00.30, 05.30. - ANN.: "Estas es R. América en Tegucigalpa." - V. by QSL-card. Re. in Sp., E.
12) Barrio Paz Barahona, San Pedro Sula. - V. by letter.
13) Santa Bárbara, S.B. - 14) P. O. Box 393, Tegucigalpa DC. - 15) 4a Ca., Comayagüela. - V. by QSL-card.
16) Apt. 33, San Pedro Sula. - L.P.: Dir. Gen.: R. A. Pedraza. C. Dir. Tec.: J. Campos. - D.PRGR.: N.: 13.00, 18.00, 00.00, 04.00. - ANN.: "H.R.Q. R. Suyapa, San Pedro Sula, Honduras, Centroamérica". - V. by QSL-card and letter.
17) La Ceiba, Atlántida. - 18) Barrio La Concordia, Tegucigalpa DC.
19) Tegucigalpa. - L.P.: Dir.: M. Villeda Toledo.
20) Apt. 734, Tegucigalpa DC. - ANN.: "Radio-Televisión Hondureña". - V. by letter.
21) S. Pedro Sula.
22) La Ceiba, Atlántida. - 23) Santa Rosa de Copán.
24) Tegucigalpa DC. - L.P.: Dir. Gen.: E. Chain A. - V. by letter.
Medium Waves:
25) La Voz de Choluteca, Choluteca. - D.PRGR.: 12.00-06.00.
26) R. Valladolid, Comayagua. - D.PRGR.: 13.00-04.00.

★ MARTINIQUE (French West Indies) ★

L.T.: GMT ÷ 4 h. - Pr.L.: French. - Po.: 260.000. - Rcvrs.: 12.000. - E.C.: 110/220 V., A.C., 50 c/s.

R. MARTINIQUE (R.diff. Télévision Française)

ADDR.: Clairière, Fort de France. - L.P.: Dir.: A. Bazire.

HOME SCE.:

1500 kc/s	200.0 m	8 kW:	10.15-02.15 (Sat. 10.15-04.00)
2420	- 123.9	- 8 -	20.00-02.15
3315	- 90.50	- 8 -	10.15-16.00
4895	- 61.29	- 8 -	16.00-20.00
5995	- 50.04	- 1.5 -	10.15-02.15 (Sat. 10.15-04.00)

ANN.: "Ici Fort-de-France, Radiodiffusion Française". - INT.-SIG.: First eight notes of "Adieu Foulards, Adieu Madras"; piano.



V. by letter.

★ NETHERLANDS ANTILLES ★

L.T.: GMT ÷ 4½ h. - Pr.L.: Dutch, Papiamentu, English, Spanish. - Po.: 191.768. - Rcvrs.: 73.411. - E.C.: 125 V., A.C., 50 c/s.

CURAÇAO

RADIO CUROM (Foundation: "Curaçaose Radio Vereeniging")

FL.: Membership fees and adv. - AD.: 90 min. daily (exc. Sun.).

ADDR.: P.O. Box 31, Willemstad, Curaçao. Cable: Curaver. Te.: 12556. - L.P.: Dir. Gen.: C. G. Grooten. Dir. Prgr. & Mgr.: Dr. A. Cloo. Dir. Tec.: R. van Lit. Adv. Mgr.: P. van Driel.

Netherlands Antilles - Nicaragua

HOME SERVICE: PCJ-2 865 kc/s 346.8 m 10 kW:
11.00-03.30. Sun.: 13.30-17.30, 21.30-03.30. N.: Dutch: 11.30, 15.00, 17.00, 20.30, 23.30, 03.25. Papiamento: 16.30, 22.30.
ANN.: English: "This is Willemstad, Curaçao - Radio Curom".
Dutch: "U luistert naar de Curom te Willemstad, Curaçao". Papiamento: "Aki ta Curom na Willemstad, Corsow".
INT.-SIG.: Movements from "Piet Hein-rhapsody" (Dutch trad.).
PUB.: Monthly "Curom-Gids", for members only.

RADIO HOYER (Cultural, Comm.)

FL.: R. Hoyer 1 and 3 by adv. R. Hoyer 2 on cultural basis. - **ADDR.:** Julianaplein 21, Willemstad. **Cable:** Radioyer. **Te.:** 11673. - **L.P.:** Dir. Gen.: H. E. Hoyer. **Dir. Adm.:** Miss S. M. Priest. **Dir. Tec.:** E. G. Gilmore. **Dir. Adv.:** F. Hoyer.

HOME SCE: Dutch, English, Spanish, Papiamento:

PICT-1 1010 kc/s 297 m 1 kW: 09.30-04.30 Spanish, Papiamento
PICT-2 1500 - 200 - 1 - : 09.30-04.30 Dutch, English
N.: Spanish: On the ½ h. and 10.45, 11.45, 16.50, 22.00, 01.30.
Papiamento: On the h. and 13.30, 16.30, 22.30, 02.30. Dutch: On the h. and 11.15, 13.30, 17.30, 21.45, 23.00. English: On the ½ h. and 12.00, 15.30, 17.15, 01.30.

ANN.: E.: The first 3 bars of Curaçao's anthem followed by: "This is station PCJ7 R. Hoyer transmitting on...". - **V. by QSL-card.**

RADIO CARIBE (Comm.):

FL.: By adv. only. - **ADDR.:** Nieuwestraat 22B, Willemstad. **Cable:** R. Caribe. **Te.:** 12801. - **L.P.:** Dir. Gen., Prgr., Tec.: C. R. Heilegger. **Dir. Tec., For. Rel.:** G. A. T. Heilegger.

HOME SCE: PJL3 1230 kc/s 243.9 m 0.25 kW: W. 11.00-04.30. Sun. 12.30-04.30. W.: Papiamento & Spanish: 11.00-13.00; Dutch & English: 01.00-04.30. Sun.: English: 12.30-14.30; Dutch: 14.30-16.30; Papiamento & Spanish: 16.30-22.30; Dutch & English: 22.30-04.30.

ANN.: E.: "This is R. Caribe broadcasting on its assigned frequency of 1230 kc/s 243.9 m"; announcements in Dutch, Spanish and Papiamento are similar. - **V. by letter and QSL-card.** - **F.P.L.:** 1 kW on 540 kc/s.

ARUBA

RADIO KELKBOOM (Comm.). - **ADDR.:** P.O. Box 9, Oranjestad. **Cable:** Kelkboom. **Te.:** 1899. - **L.P.:** Mgr.: C. A. Kelkboom.

HOME SERVICE: PJA5 1435 kc/s 209 m 1 kW:

W. 12.30-02.30. Sun. 14.30-02.30.
Dutch: D.: 16.30, 17.15, 23.45-00.30. Sun. 20.30-21.30. Mo. 22.00-22.30. Sun., Thurs.: 01.30-02.30. - N.: 17.00, 22.15. - English: W.: 15.30-15.45, 17.15-17.35. - N.: 17.25. - Spanish: W.: 14.30-15.00, 00.45-01.00. Sun. 16.00-16.30. - Papiamento: W.: 15.45, 16.00. Tues. 01.30-02.00. Sun. 16.30-17.00.

ANN.: Dutch: "Hier PJA-5 R. Kelkboom te Oranjestad Aruba".
English: "This is PJA-5 R. Kelkboom at Oranjestad, Aruba".
Papiamento: "Ta transmite R. Kelkboom PJA-5 na Oranje, Aruba". - **V. by QSL-card. Rp.**

RADIO VICTORIA (Sponsored and owned by the Evangelical Alliance Mission - TEAM). - **FL.:** Partly by comm. adv. - **ADDR.:** Oranjestad. **Cable:** Team. **Te.:** 5490. - **L.P.:** St. Mgr.: Rev. P. J. Pietsch.

HOME SERVICE: PJA6 920 kc/s 326 m 5 kW:

W. 15.30-03.00. Sun.: 11.30-14.00, 17.30-23.30.
English: D.: 17.00-19.15, 00.00-03.00. N.: 17.00, 00.30, 02.30.
Dutch: W. 23.00-24.00. N.: 23.00.

Papiamento & Spanish: 15.30-17.00, 19.15-23.00. N.: 16.30, 22.30.
ANN.: E.: "This is R. Victoria, The Cultural Voice of the Caribbean".
Sp.: "Transmite R. Victoria, La Voz Cultural del Caribe".
V. by letter. Prgr.schedule free on request.

VOICE OF ARUBA (Comm.). - **ADDR.:** Van Leeuwenhoekstraat 12, Oranjestad. - **L.P.:** Dir.: A. M. Arends Jr. **Dir. Tec.:** D. Odor. **Dir. Prgr.:** H. v/d Berg.

HOME SERVICE: PJA10 655 kc/s 457 m 1 kW: 10.30-02.30 in Dutch, English, Spanish.

ANN.: "You are tuned to Station PJA10 - The Voice of Aruba". - **INT.-SIG.:** 4 strokes on a 4 metal bar percussion instrument. - **V. by QSL-card or letter.**

RADIO ANTILLANA (Comm.). - **ADDR.:** P.O. Box 28, St. Nicolaas. - **L.P.:** Mgr.: J. B. Wix. **Dir. Tec.:** Peeren.

HOME SERVICE in Papiamento & English: 775 kc/s 386 m 1 kW: W.: 10.30-12.30, 16.15-18.00, 21.30-02.30(Sat. 03.30). Sun. 22.30-02.30. - **V. by letter.**

BONAIRE

R. HOYER 3: PJB2 1385 kc/s 216 m 1 kW: D.: 10.30-12.30, 16.30-18.30, 22.30-01.30 in Papiamento, Dutch, English, Spanish.

★ NICARAGUA ★

L.T.: GMT ÷ 6 h. - **Pr.L.:** Spanish. - **Ps.:** 1.333.000. - **Rcvrs.:** 36.000. **E.C.:** 110/220 V. A.C., 60 c/s.

JEFATURA DEL RADIO NACIONAL, Apt. 209, Managua.

STATIONS: All st.'s comm. exc. 17) (Go.), 1), 21) (Cultural), 23) (Rel.)

Short Waves: Call: YN—.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	RC	5810	51.63	0.25		R. Cultural
2)	WW	5965	50.28	0.5	650	R. Sport: 23.00-04.00
3)	DG	5995	50.04	1		R. Colonial
4)	X	6025	49.79	5	750	Estacion "X": 12.00-05.00
5)	LW-A	6040	49.67	0.5		R. City: 12.00-06.00
6)	EQ	6065	49.46	0.45		R. Universal: 12.00-04.00
7)	EC	6100	49.18	0.4		R. Hernandez Cordoba
8)	WA	6140	48.96	0.5	930	R. Mundial: 12.00-05.00
9)	UW	6190	48.47	0.25	1180	R. Dario ⁸
10)	JM	6200	48.39	1		R. Norte
11)	WN	7312	41.03	0.15	1450	R. Granada
12)	RM	7602	39.46	0.5	1090	R. Musun ⁷
13)	MS	7660	39.16	0.25	1440	R. Philips: 13.00-05.00
14)	CA	7753	38.67	0.15	1520	R. Atlantico: 16.00-20.00, 23.00-04.00
15)	BX	7890	38.02	0.1		R. Oriental: 16.00-03.00

Medium Waves: Call: YN—, °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
16)	HD	575 1	25)	LU	965 1	36)	RA	1300 0.37
17)	RD	590 3 ²	26)	OP	980 0.25	37)	XZ	1320 0.2
18)	M	620 15	27)	HTM	1000 3	38)	GF	1360 0.5
21)	XW	650 1 ²	8)	W3	1025 1 ⁴	4)	X	1370 1
19)	D	675 15	28)	LL	1050 0.25 ²	4)	X	1400 1
20)	SC	700 1	29)	TW	1070 0.18	4)	X	1420 1
4)	X	750 3	12)	RM	1090 0.25 ²	13)	MS	1440 0.15
8)	W2	775 1 ⁴	30)	Q	1100 0.75	11)	WN	1450 0.15
21)	R	800 1	31)	WS	1130 1	39)	AG	1475 2
22)	OL	825 15	32)	BB	1150 0.4 ³	40)	PT	1500 0.5
23)	MV	850 5	9)	UW	1180 0.1 ²	14)	CA	1520 0.15
8)	W1	875 1 ⁴	33)	C	1200 0.5	41)	KE	1530 0.5
24)	RC	900 10	34)	CW	1240 0.5 ²	42)	AS	1560 0.25
8)	W	930 10 ⁴	35)	WX	1270 2.5			

¹ R. Mundial Nicaraguan Radio Network.

² R. Deportes Nicaraguan Sports Network.

Short Waves:

1) Managua. - 2) Granada. - **L.P.:** Dir.: M. Arana V. - 3) León.
4) Aptdo. 1505, Managua. **Cable:** Tevenic. **Te.:** 5405. - **L.P.:** Dir. Gen.: R. O. Cano. - 5) Managua. - 6) Apt. 338, Managua.
7) Ocotal.
8) 5a Av. N.O. 703, Managua. **Te.:** 3851. - **L.P.:** Dir. Gen.: M. Arana V. **Dir. Tec.:** F. Arana V. - **FM:** 92 mc/s (1 kW), 100.00 mc/s (0.1 kW). - **D. PRGR.:** N.: 12.00, 16.30, 19.30, 23.00, 04.15. - **ANN.:** "R. Mundial transmitiendo desde los estudios de la Cadena Nicaraguense de Radiodifusión en Managua, Nicaragua, Centro America".
9) León. - 10) Somoto. - 11) Granada. - 12) Matagalpa. - 13) Apt. 27, León.
14) Bluefields. - **L.P.:** Dir.: R. Tijerino S. - **D. PRGR.:** in Spanish, English. - 15) Granada. - **L.P.:** Dir.: J. Mena P.

Medium Waves:

16) R. Minerva, Masaya.
17) R. Deportes, Managua. - **L.P.:** Dir.: F. Arana V.
18) Radiodifusora Nacional, Edif. Benard, Managua. **Te.:** 71173. - **L.P.:** Dir. Gen.: S. Cisneros Leiva. **Dir. Tec.:** B. Guerrero. - **D. PRGR.:** 12.00-04.00. N.: 12.30, 19.00, 03.15. - **ANN.:** "Paz, Libertad, Progreso, transmite R.difusora Nacional de Nicaragua". - **V. by letter. Rp.**
19) Union Radio, Aptdo. 1148, Managua. **Te.:** 4422. - **L.P.:** Dir.: R. Arroliga S. **Dir. Tec.:** O. Meza Lira. - **D. PRGR.:** 24 h. N.: 12.00, 16.30, 18.45, 22.00. - **ANN.:** "Union Radio, La Onda Musical y Deportiva 675 kc/s, Managua de la Cadena Inter-Americana W.R.U.L. de New York". - **V. by QSL-card and letter. Prgr.schedule free on request.**
20) R. Centauro, Managua. - **L.P.:** Dir.: S. Cardenal A. - **FM:** 89.0 mc/s 0.06 kW.
21) R. Reloj, Managua. - **L.P.:** Dir.: R. Arana Sandigo.
22) Ondas de Luz, Apt. 607, Managua. **Te.:** 8251. - **L.P.:** Pres.: F. Dona M. - **D. PRGR.:** 12.00-04.30. N.: 14.00, 19.00, 01.00, 04.00. English: 03.00-04.30. - **ANN.:** "YNOL Ondas de Luz, con su lema: Orientando su camino con la luz de la verdad". - **V. by letter and QSL-card.**
23) R. Continental, Av. Este 1200, Managua. - **L.P.:** Dir.: M. Valle Q.
24) R. Catolica de Nicaragua, Aptdo. 2183, Managua. **Te.:** 72260. - **L.P.:** Dir. Gen.: F. Narciso de Arenys. **Dir. Tec.:** F. Gadea Mantilla. - **D. PRGR.:** 12.00-04.00. N.: 13.00, 19.00, 01.15. - **ANN.:** "Por Christo y por su iglesia, transmite: YNRC, R. Católica de Nicaragua".
25) R. Managua, Managua. - **L.P.:** as 5).
26) Emisora Cultural Carazo, Jinotepe. - **L.P.:** Dir.: A. Obregon P.
27) R. Noticias, Managua.
28) R. Masaya, Masaya. - **L.P.:** Dir.: L. Correa L.
29) R. Centro, Granada.
30) La Voz de la Victoria, Managua. - **L.P.:** as 6).
31) Alma Nica, Managua.
32) La Voz de la Segovia, Esteli. - **L.P.:** Dir.: J. R. Barrantes. C.

- 33) R. Mongalo, Rivas. - 34) R. Occidental, Chinandega.
35) R. Atenas, León. - 36) La Voz de Chinandega, Chinandega.
37) R. Cocibolga, Granada. - 38) R. Diriamba, Diriamba.
39) R. Cosiguina, Chinandega. - 40) Tierra Penolera, Managua.
41) Leon Radio, León. - 42) Ondas del Xolotlan, Managua.

★ PANAMA ★

L.T.: GMT ÷ 5 h. - Pr.L.: Spanish. - Po.: 1.067.766. - Rvrs.: 56.122.
E.C.: 110/220 V., A.C., 60 c/s.

GOVT. DEPT. JURISDICTION:

RADIO BROADCASTING IN PANAMA

ADDR.: Direccion de Correos y Telecomunicaciones, Ministerio de Gobierno y Justicia, Panamá. Cable: Dirgentel.
L.P.: Chief Eng. Telecomunicaciones: Ing. Francisco A. Lamparero.
STATIONS: C.=Circuito. *=currently inactive.
All st.'s comm. exc. 1) (rel.), 19) (Cultural & rel.), 20) (Mil.).

Short Waves:

Call	kc/s	m	kW	m.w.	Name and h. of tr.	
1) HOL21	5960	50.34	0.5	670	R. Hogar	11.00-03.00
2) HOM50*	5995	50.04	1	610	C. R.P.C.	
3) HP5K	*6005	49.96	1	1500	La Voz de la Victor	
4) HP5B	6030	49.75	0.25	730	R. Cadena Miramar	11.00-06.00
5) HOU31	6045	49.63	1	1025	La Voz del Barú	11.00-04.00
6) HORT	*6060	49.50	0.5	1410	R. Balboa	
7) HOO	*6090	49.26	0.3	1470	R. Independiente	
8) HP5H	*6122	49.00	0.5	900	La Voz del Pueblo	
9) HOQQ	*6140	48.86	0.5	1250	R. Nacional	
10) HP5G	6175	48.58	0.3	700	R. Panamericana	11.00-04.00
11) HOLA	9505	31.56	1	1390	R. Atlantico	11.00-04.00
12) HP6J	*9607	31.23	0.25	1380	La Voz de Panamá	
13) HOJ53	*9645	31.10	0.3	1130	R. Provincias	
2) HOF31	9685	30.98	1d	965	Onda Popular	10.55-05.00

Medium Waves: Call: HO---, °=Short Waves. *=FM.

Call	kc/s	kW	Call	kc/s	kW
14) N31	550	1.0	33) M21	1115a	0.25
2) H2	560*	0.5	2) F4	1120	1.0
15) O23	575*	1.0	13) J	*1130	0.5
2) H3	590*	1.0	34) B49	1140	1.0
2) HM	610*	10.0	35) S25	1150	0.25
16) K	640	0.25	36) NZ	1170	0.25
17) S22	645	1	37) OC	1180	0.8
2) H4	660*	1.0	38) B48	1195a	1.0
1) LY	*670	1.0	39) E91	1210	0.5
18) F32	680	0.3	10) W	1230	0.1
10) A	*700	1.0	40) M56	1240	1.0
4) X45	715a	0.5	9) Q	*1250	0.25
4) HP5C	*730	0.5	41) J22	1265	0.15
4) X44	745a	0.5	42) JU	1280	0.25
19) XO	760	5.5	24) S23	1295	0.5
20) ACA20	790	5.0	11) K3	1310	0.3
2) F33	810*	1.0	43) L55	1315	1.0
21) G	830	0.3	44) M92	1330	1.0
22) HO	870	1.0	37) O39	1340	0.2
23) R34	890	1.0	4) X24	1355a	0.3
8) HA	*900	0.5	37) O38	1370	0.2
24) S56	920	0.3	12) HP5J	*1380*	1
25) X	940	0.5	11) L	*1390	0.25
26) B33	950	1	45) HS	1400	1
2) F	*965*	3.0	6) RS	*1410	0.5
27) R59	990*	1.0	20) ACB20	1420	1.0
15) U44	1015	1.0	16) C	1440	0.25
2) F2	1020	0.25	46) D42	1455	0.25
5) U	*1025	1.0	7) OH	*1470	1.0
28) U23	1030	0.3	30) B43	1490	0.25
29) J2	1040	1	3) N	*1500	0.25
30) B43	1050	1	47) K37	1510	0.24
12) HPM21	1060*	1	48) HPU28	1540a	0.07
31) D21	1070	0.25	13) J52	1560	0.1
21) G2	1090	0.25	49) E35	1570	0.1
32) R58	1100	0.5	a) under construction.		

Short Waves:

- 1) Apt. 1979, Panama - L.P.: Dir. Gen.: Rev. E. M. de Laburu S. J. Dir. Tec.: M. Ah Chu - D. PRGR.: N.: 12.00, 17.15, 23.00 - ANN.: "R. Hogar, La Emisora Católica al Servicio de la Paz y la verdad" - V. by letter. Re. in Sp. or E.
2) Apt. 1795, Panama. Cable: Erepece - L.P.: Dir. Gen.: F. Eleta A. Dir. Tec.: L. O'Meally - C. R.P.C.: M.w.: HOH2 Colon, HOH3 Chitre, HOH4 Panama, HOH4 David - S.w.: HOM50 Panama - FM: HOH/HOH86 Panama, HOH87 Chitre - D. PRGR.: N.: 11.30, 15.30, 18.00, 23.30 - Onda Popular: M.w.: HOF33 Chitre, HOF Panama, HOF2 Colon, HOF4 David - S.w.: HOF31 Panama - FM:

HOH87 Chitre, HOH88 Panama - ANN.: "Onda Popular" - V. by QSL-card. Re. in Sp. or E.

- 3) Apt. 33, Colon - L.P.: Dir.: J. Jaén y Jaén.
4) Apt. 1214, Panama. Te.: 34681 - L.P.: Pres.: E. de la Guardia III. Dir.: A. Jimenez. Dir. Tec.: H. Cava - D. PRGR.: 11.00-06.00 on 730/6030 kc/s - N.: 12.00, 18.00, 21.30, 23.00, 24.00, 02.00 - V. by letter.
5) Apt. 160, David. - 6) Apt. 4369, Panama. - 7) Apt. 545, Panama.
8) Apt. 1045, Panama. - 9) Apt. 552, Panama. - 10) Apt. 1121, Panama.
11) Apt. 444, Colon - HOK3: La Onda de la Alegria - L.P.: Dir.: A. Galindo - V. by QSL-card.
12) HP5J/HP6J: Apt. 867, Panama. HPM21: La Voz de Ancon, Av. Central 169, Panama - L.P.: Pres.: M. Diaz Doce. Gen. Mgr.: J. G. Diaz I. Dir. Tec.: F. Lamparero - D. PRGR.: N.: 12.00, 17.30, 23.30 - Italian: Sun. 22.00-24.00 - ANN.: "Desde Panama Puente del Mundo Corazon del Universo Transmite La Voz de Panama decana de las Emisoras Nacionales Compruebe su tiempo" - V. by letter.
13) Apt. 826, Chitre, HOJ52: Los Santos - L.P.: Mgr.: P. Reyes. Medium Waves: D. PRGR.: Approx. 11.00-04.00.
14) R. Aeropuerto, Apt. 4824, Panama - L.P.: Pres.: J. L. Salas.
15) Apt. 5124, Panama. Cable: Radioreloj. - AD.: Gives the time every 3rd min. Followed by an adv. - L.P.: Dir.: O. Antonio Mocchi. Mgr.: B. Prados de Mocchi. Dir. Tec.: Ing. F. A. Lamparero. Dir. Prgr.: A. D. Carrillo B. - D. PRGR.: 24 h. - N.: every 15 min. - ANN.: "R. Capital, un capital de diversiones para Ud. en 575 kc/s, desde Panama, capital de la Republica de Panama".
16) Cadena Panameña de Radiodif., Apt. 33, Colon - L.P.: as 3).
17) R. Mia, Apt. 5117, Panama - L.P.: as 24).
18) R. Centenario, Ca. 101 Entre Av. C y B sur, Puerto Armuelles - L.P.: Dir.: R. D. González.
19) La Voz del Istmo, Apt. 3269, Panama - L.P.: St. Mgr.: R. Beukema. Dir. Prgr.: W. Herzog. Dir. Tec.: H. Erickson - D. PRGR.: 11.00(Sun. 11.00)-04.00 in Spanish exc. English: W.: 11.00-14.00, 01.00-04.00, Sun.: 11.30-17.00, 00.45-04.00 - N.: E.: 11.45, 03.00. Sp.: 15.00, 17.00, 22.00 - ANN.: E.: "This is HOXO, the Voice of the Isthmus, 760 kc/s in Panama". Sp.: "Esta es La Voz del Istmo, 760 kc/s en Panamá, HOXO".
20) Caribbean Forces Network, (AFRTS), Fort Clayton, Canal Zone. ACA20 Panama, ACB20 Colon.
21) Estacion de la Comunidad, Apt. 1121, Panama. HOG2: Ca. 101 9080, Colon - L.P.: as 10).
22) R. Musical, Apt. 355, Panama.
23) Ondas del Pacifico, Apt. 401, David.
24) R. Peninsula, Chitre - HOS23: R. Guadalupe, Apt. 5117, Panama - L.P.: Owner: R. Pereira P.
25) Panama. - 26) R. Cultura, Apt. 249, Concepción.
27) R. Leblanc, Ca. 16 Oeste 13a-20, Panama.
28) R. Zarati, Av. Juan D. Arosemena, Penonome.
29) Ondas del Canajagua, Las Tablas - L.P.: Owner: F. Jolly.
30) La Voz de Bocas del Toro, Bocas del Toro.
31) Ondas del Caribe, Av. Melendez y Roosevelt 8044, Colon - L.P.: Owner: J. M. Carrasquilla.
32) R. Rumbos, Apt. 4421, Panama - L.P.: Owner: J. Rodriguez.
33) Panama City - L.P.: Owner: J. L. Torres.
34) Via España y Ca. 45 Este, Panama.
35) R. Mia de Colon.
36) Ondas Istmeñas, Apt. 3237, Panama - L.P.: as 22).
37) C. de Ondas Chiricanas, Apt. 172, David. HO038: La Concepción. HO039: Boquete - L.P.: Owner: E. del Calvo.
38) Aguadulce - L.P.: Owner: J. E. Carrasco.
39) R. El Mundo, Apt. 1566, Panama - L.P.: Owner M.P. de Valdés.
40) R. David, Apt. 328, David - L.P.: Owner: F. Moncada Luna.
41) La Voz de America, Apt. 5117, Panama - L.P.: as 32).
42) La Voz del Vigia, Av. Rodolfo Chiari, Aguadulce.
43) R. Reforma, Av. Herrera, Final, Chitre - L.P.: Owner: P. Solís Villalaz - D. PRGR.: 10.57-03.30 - V. by QSL-card.
44) R. Noticias, Jardin San Francisco, Panama.
45) Ondas Centrales, Santiago - L.P.: Owner: H. Santacoloma.
46) La Voz de Almirante, Ca. 6a y Av. N., Almirante.
47) Ondas de San Pablo, Sona. - 48) Emisora de la Universidad, Panama.

★ SWAN ISLANDS ★

L.T.: GMT ÷ 6 h. - Pr.L.: English, Spanish.

RADIO SWAN (Comm.)

ADDR.: G.P.O. Box 1247, New York 1, N.Y., USA. - L.P.: Comm. Mgr.: H. H. Heath.
D. PRGR.: in Spanish and English:
1160 kc/s 259 m 50 kW: 10.00-13.00, 17.30-19.00, 20.00-05.00 6000 - 50.00 - 7.5 - : 10.00-13.00, 17.30-19.00, 20.00-05.00 English: 23.00-23.30 - Other times Spanish.
ANN.: E.: "This is R. Swan, the International Voice of the Caribbean". Sp.: "Esta es R. Swan, la Voz Internacional del Caribe". - V. by letter.

THE WEST INDIES

★ BARBADOS ★

L.T.: GMT ÷ 4 h. - Pr.L.: English. - Po.: 237,000. - Loudspeakers: 21,000. - E.C.: 110/220 V., A.C., 50 c/s.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)
Fl.: By adv. - ADDR.: River Road, Bridgetown. Cable: Rediffusion. Te.: 5126. - L.P.: Gen. Mgr.: Col. R. W. R. Oliver. Eng.: G. Duesbury. Dir. Prgr.: J. Colley. - D. PRGR.: 10.00-03.00 Wired Broadcasting. - N. (BBC): 11.00, 16.00, 21.00, 23.00, 03.00.

Barbados Rediffusion Service operates experimental broadcasts on short wave via Messrs. Cable & Wireless (W.I.) during special events like horse racing and cricket matches, (the Rediffusion Service will operate) on one of the following frequencies via Cable & Wireless: ZNX20 5040, ZNX32 7547, and ZNX49 11015 kc/s.

★ JAMAICA ★

L.T.: GMT ÷ 5 h. - Pr.L.: English. - Po.: 1,607,000. - Rcvrs.: 280,000. E.C.: 110/220 V., A.C., 40 c/s.

R. JAMAICA LTD. (Comm.)
Fl.: By adv. - AD.: 12 mins. per h. - ADDR.: 32 Lyndhurst Road, Cross Road, Kingston 5. Cable: Broadco. Te.: 68151. - L.P.: Gen. Mgr.: K. C. MacKenzie. Dir. Prgr.: J. Colley.

HOME SERVICE in English: 10.00-05.00
Mandeville 770 kc/s 5 kW Point Galina 580 kc/s 5 kW
Kingston 720 - 5 - Montego Bay 550 - 5 -
N. (relay BBC): 13.00, 02.00. - Wrp.: 11.05, 02.59. Imminent Hurricane warnings on the h. every h. of transmission.

ANN.: "This is R. Jamaica and Rediffusion". - V. by QSL-card.

JAMAICA BROADCASTING CORPORATION
(Comm. and Public Service)

Fl.: By adv. - AD.: Max. 10 min. per h. - ADDR.: 5, South Odeon Ave., Kingston. Cable: Jarad. Te.: 67541-5. - L.P.: Gen. Mgr.: A. L. Hendriks. Dir. Prgr.: F. M. Needham. Dir. Tec.: G. L. Stewart. Dir. of N., Public Affairs: H. Bernard. Sales Mgr.: R. Lawrence.

HOME SERVICE in English: 10.00-05.00
Kingston 560 kc/s 5 kW Spur Tree 620 kc/s 5 kW
Montego Bay 700 - 5 - Point Galina 750 - 5 -
FM:

Kingston 95.1 mc/s 1.2 kW Half Way Tree 99.9 mc/s 0.08 kW
Christiania 91.1 - 1.2 - Cooper's Hill 91.3 - 0.115 -
N.: W.: 10.30, 11.30, 12.00, 12.30, 13.00*, 13.30, 14.30, 15.30, 16.30, 17.30, 18.30, 19.30, 20.30, 21.30, 22.30, 23.00*, 00.30, 03.00*, 03.30, 04.30. Sun.: 11.30, 12.30, 13.00*, 14.30, 21.30, 22.30, 23.00*, 02.00. *-BBC.

Govt. Prgr.s: Wed. 02.00, Thurs. 22.00, Fri.: 00.30, 22.00, Sat. 22.00, Sun.: 00.30, 23.30.

ANN.: "This is the JBC - the Voice of Jamaica" - INT.-SIG.:



V. by QSL-card.

★ LEEWARD ISLANDS ★

See last information and corrections

★ TRINIDAD ★

L.T.: GMT ÷ 4 h. - Pr.L.: English. - Po.: 828,000. - Rcvrs.: 130,317. - E.C.: 220 V., A.C., 60 c/s.

TRINIDAD BROADCASTING CO. LTD. (Comm.)
Fl.: By adv. - ADDR.: Broadcasting House, 11B, Maraval Rd., Port-of-Spain. Cable: Broadcast. Te.: 21151.

L.P.: Mgr.: J. M. Laing. Eng.-in-Charge: J. N. Elven.
HOME SERVICE: VP4RD: D. 10.00-03.00. *-Wrp.
730 kc/s 410 m 20 kW - FM: 95.1 mc/s 1 kW,
N.: 10.45*, 11.00 (BBC), 12.00*, 13.00 (BBC), 15.00, 16.00 (BBC), 16.30*, 18.00, 20.00 (BBC), 22.00, 23.45*, 02.00 (BBC).

ANN.: "This is R. Trinidad, the Voice of the West Indies". - V. by QSL-card. R.p. - Prgr.s: schedule free on request.

RADIO GUARDIAN (Comm.)

Fl.: By adv. - AD.: 10 min. per h. - ADDR.: 17 Abercromby Street, Port of Spain. Cable: Voice. Te.: 32618-9-0. - L.P.: Mgr.: E. L. Heywood. Dir. Tec.: F. Thompson. Dir. Prgr.: F. Hughes. Sales Mgr.: S. Littlepage.

HOME SERVICE: D. 10.00-03.00 610 kc/s 10 kW. - FM: 98.9 mc/s 0.25 kW. N.: On the h. - Wrp.: On the ½ h.

ANN.: "This is R. Guardian, The Voice of Trinidad. Key Station of the Federation", and on the h.: "This is Station 610, etc.".

★ WINDWARD ISLANDS ★

L.T.: GMT ÷ 4 h. - Pr.L.: English. - Po.: 338,000. - Rcvrs.: 20,000. - E.C.: 230 V., A.C., 50 c/s.

WINDWARD ISLANDS BROADCASTING SERVICE (Go.)

Fl.: By state and by license fees. - ADDR.: St. George's, Grenada, W.I. Cable: Broadcasts. Te.: 4251. - L.P.: Man. Dir.: A. C. G. Palmer, M.B.E. Dir. Tec.: R. A. Smith, Memb. I.R.E.

HOME SCE.: a) Grenada. b) Dominica. c) St. Vincent. d) St. Lucia
St. George's a) 1045 288.9 0.5 15.30-17.30, 20.00-02.15
Roseau b) 1535 196.0 0.025 15.30-17.30, 20.00-02.15
Kingstown c) 1575 191.0 0.025 15.30-17.30, 20.00-02.15
Castries d) 1580 190.0 0.025 15.30-17.30, 20.00-02.15
St. George's a) *3365 89.15 5 22.35-02.15
- a) *5010 59.88 5 20.00-22.35
- a) *9550 31.41 5 15.30-17.30 (spec. broad-
casts 13.00-20.00)

- a) 11955¹⁾ 25.09 0.25 22.40-02.15
- a) **15390²⁾ 19.49 0.25 15.30-17.30, 20.00-22.40

* to Eastern Caribbean. ** to Jamaica, Turks & Caicos Isl., Cayman Isl. ¹⁾ or 11975 kc/s. ²⁾ or 15085 kc/s.

N.: D.: BBC: 16.00, 20.00, 23.00, 02.00. Local: 16.40, 22.25, 23.45. F.P.L.: OVERSEAS SERVICE (to British Isles) on 15085 or 21680 kc/s 5 kW. d: W. 18.15-18.45.

ANN.: "This is the Windward Islands Broadcasting Service".

INT.-SIG.: A typical calypso phrase played on the "ping-pong", an indigenous instrument made from the top of a steel drum.



V. by QSL-card. - F.P.L.: M.w.-Satellites. Increase power of Jamaica transm. to 5 kW d. - PUB.: Prgr.sched. weekly.

RADIO CARIBBEAN (Comm.)

Fl.: By adv. - AD.: Max. 5 min. per h. - ADDR.: P.O. Box 121, Castries, St. Lucia, W.I. Cable: Caradio. Te.: 405. - L.P.: Dir. Gen.: M. Ferry. Dir. Prgr.: Mrs. R. Gilles. Dir. Tec.: M. J. Charles. Dir. Foreign Rel.: B. V. Volkoff.

HOME SERVICE in English & French:
830 kc/s 361 m 20 kW: 11.00-02.30.
N.: Every h. on the h. in French; every h. on the half h. in English. - Wrp.: 16.00, 22.00, 23.00. - L.L.: "English by Radio" (BBC prgr.) Tues., Thurs., Sat. 22.00.

ANN.: E.: "This is R. Caribbean, St. Lucia, West Indies, operating on a frequency of 830 kc/s in the medium wave band. F.: "Ici R. Caraibes, St. Lucie, emettant sur 830 kc/s". - V. by letter. R.p. - F.P.L.: S.w. transmitter in the 25 m.b. in 1962.



SOUTH AMERICA



★ ARGENTINA ★

L.T.: GMT ÷ 3 h. - Pr.L.: Spanish. - Po.: 20,959,000. - Rcvrs.: 5,000,000. - E.C.: 220 V., A.C., 50 c/s.

SECRETARIA COMUNICACIONES

ADDR.: Buenos Aires. Cable: Gentel-Baires. Te.: 49-9558.
L.P.: Secr. de Comunicaciones: Dr. M. F. Mugica. Vice-Secretary: C. B. Perterra. Dir. Gen.: S. S. Guillani.

R. NACIONAL (Go.)

ADDR.: Ayacucho 1556, Buenos Aires. Te.: 84-2021. - L.P.: Dir. Gen.: D. L. A. Quesada.

HOME SERVICE: Short Waves:

Call	kc/s	m	kW	m.w.	H. of tr.
LRA31	6060	49.50	16	870	11.00-03.00
LRA34	6180	48.54	10	970	13.00-03.00
LRA32	9690	30.96	100	870	Sat./Sun. 21.30-04.00
LRA33	15345	19.55	100	870	11.00-18.30(Sat./Sun. 21.00)

Medium Waves: *-Short Waves:

Name	Call	kc/s	kW	H. of tr.
Santa Rosa	LRA3	670	20	13.00-03.00
Salta	LRA4	690	10	13.00-03.00
Cordoba	LRA7	750	50	11.00-03.00
Rosario	LRA5	780	20	11.00-03.00
Formosa	LRA8	780	5	13.00-18.00, 22.00-03.00
B. Aires	LRA	*870	100	11.00-04.00
Mendoza	LRA6	*970	5	12.00-03.00
Esquel	LRA9	690	5	11.00-17.00, 19.00-01.00
Ushuaia	LRA10	580	5	13.00-17.00, 21.00-02.00

D. PRGR.: N.: 12.00, 16.00, 24.00. - V. by QSL-card.

INTERNATIONAL SERVICE

ADDR.: Radiodifusion Argentina Al Exterior (R.A.E.), Sarmiento 151, Buenos Aires.

STATIONS:

LRA32 9690 kc/s 30.96 m 100 kW d.

LRA35 11730 - 25.58 - 100 - d.

TO EUROPE: Mo.-Fri.: 19.00-01.00 on 11730 kc/s.

Spanish: 19.00 - German: 20.00 - Italian: 21.00 - French 22.00 - English 23.00 - Portuguese 24.00.

TO USA: Tues.-Sat.: 02.00-04.00 (Ea.), 04.02-06.02 (We.) on 9690 kc/s.

Spanish 02.00 - English 03.00 - Spanish 04.02 - English 05.02. - Prgr.'s: N., Argentine Music, Folk Music, Mailbag every Thurs. - ANN.: Sp.: "Aquí Argentina", G.: "Hier spricht Argentinien", I.: "Qui Argentina", F.: "Ici l'Argentine", E.: "This is Argentina Calling", P.: "Aquí Argentina". - V. by QSL-card.

OFFICIAL STATIONS (Go.)

Call	kc/s	kW	Name	H. of tr.
1) LS1	710	20	R. Municipal	11.00-03.00
2) LU14	730	5	R. Provincia de Santa Cruz	11.00-05.00
3) LS11	1270	30	R. Provincia de B. Aires	10.00-03.00
1) Teatro Colon, Buenos Aires. - L.P.: Dir.: M. Pavese.				
2) Rocha y Chacabuco, Santa Cruz.				
3) Ca. 10 y Av. 53, La Plata. - L.P.: Dir.: F. Fatu. Secr. Gen.: D. F. Fernández. Dir. Tec.: D. M. Angel Cabut.				

CULTURAL STATIONS

Call	kc/s	kW	Name	H. of tr.
4) LR11	1390	1.5	R. Universidad de La Plata	13.00-03.00
5) LT10	1430	0.5	R. Universidad del Litoral	15.00-03.00
4) Plaza Rocha 133, La Plata. - L.P.: Dir.: J. Sager.				
5) 9 de Julio y Pellegrini, Santa Fe. - L.P.: Dir.: L. Bonaparte.				

COMMERCIAL STATIONS

ASOCIACIÓN DE RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)

ADDR.: Córdoba 1114, Buenos Aires. Cable: Arpa-Baires. Te.: 424964. - L.P.: Pres.: B. A. Martínez.

COMISION ADMINISTRADORA DE EMISORAS COMERCIALES Y TV. - ADDR.: Cerrito 941, Buenos Aires. Te.: 42-0411.

Short Waves:

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) LRS2	5985	50.13	20	830	R. Splendide: 09.59-01.35
2) LRY1	6090	49.26	5/40	950	R. Belgrano: 10.50-01.30
3) LRX1	6120	49.02	10	1070	R. El Mundo: 11.00-12.00, 14.15-04.00
3) LRX	9660	31.06	5	1070	R. El Mundo: 10.00-03.00
3) LXR2	9712	30.89	10	1070	R. El Mundo: 10.00-03.00
1) LRS1	9740	30.79	20	830	R. Splendide: 09.59-01.35
2) LRY	9760	30.74	30	950	R. Belgrano: 09.00-20.30
1) LRS	11880	25.25	10	830	R. Splendide: 09.59-05.00
3) LRU	15290	19.62	5/10	1070	R. El Mundo: 10.00-14.00

Medium Waves: °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
4) LV1	560	10/5	21) LV7	890 ²		37) LT3	1160 ⁵	
5) LV12	580 ¹⁰	22) LU2	*900 5		38) LV11	1170 ²		
6) LS4	*590 10	23) LV3	910 ⁸ /12/10		39) LR9	1190 4		
7) LU8	590 ¹¹	2) LR3	*950 50		40) LW3	1190 ⁴		
8) LS5	*620 3	24) LV2	960 ¹⁰ /10/5		41) LT6	1200 ¹		
9) LT15	*630 10	25) LW8	970 ¹		42) LU10	*1200 3		
10) LV8	630 ¹⁵	26) LR5	990 25		43) LV10	*1210 5		
11) LV15	640 ¹	27) LT4	*1010 2		44) LU6	1230 ¹		
12) LU4	640 ¹	28) LV16	*1010 5		45) LU3	*1240 10		
13) LU12	*680 1	29) LT2	1020 ¹⁵		46) LV13	1250 ³		
14) LV6	*680 10	30) LS10	1030 10		47) LR9	*1260 10		
15) LV4	690 ⁰ /5	3) LR1	*1070 50		48) LT11	1300 ¹ /5		
16) LW7	730 ¹	31) LT5	1080 ¹ /5		49) LU13	*1300 2		
17) LU9	*780 1	32) LV5	1090 ¹⁵		50) LT14	1320 ¹⁵		
18) LR6	790 25	33) LR2	1110 15		51) LV14	1330 ¹		
19) LW1	820 15	34) LU5	1130 ¹		52) LT7	*1340 5		
1) LR4	*830 50	35) LV9	*1130 5		53) LS6	1350 3		
20) LT8	840 ¹⁵	36) LU7	1150 ¹⁵		54) LT12	1360 ¹ /5		
					55) LT16	1370 ¹		

* belongs to ARPA. Other st.'s belong to the Government or the universities exc. 4) and 30), which are independent comm. st.'s. - ¹ In chain with LR4 R. Splendide, Buenos Aires. - ² In chain with LR3 R. Belgrano, Buenos Aires. - ³ In chain with LR1 R. El Mundo, Buenos Aires.

Short Waves:

1) Uruguay 1237, B. Aires. Te.: 42-9601. - L.P.: Dir. Gen.: F. Ferretti. Asesor Artísticos: F. Koenig. Dir. Tec.: E. G. Graziani. - D. PRGR.: 09.45-05.00 on 830 kc/s. The Reg. st.'s relay LR4 as follows: 09.59, 10.59, 12.57, 14.52, 15.19, 19.59, 20.53, 21.58, 22.53. - N.: 10.00 and every h. on the h. from 11.00. - ANN.: "LR4 R. Splendide de Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 de la Red Argentina de Emisoras Splendide". - INT.-SIG.: 4 notes on electronic gong. - V. by letter.

2) Office: Cerrito 941, B. Aires. Studio: Ayacucho 2075, B. Aires. Te.: 429661. - L.P.: Dir.: Dr. J. O. von Oertel. Com. Dir.: D.

Castaño. Artistic Supervisor: L. Seta. Dir. Tec.: M. Koelble. - D. PRGR.: 09.00-04.15 on 950 kc/s. - N.: 09.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00. - ANN.: "Transmite LR3 R. Belgrano de Buenos Aires con sus ondas cortas LRY, LRY1 y su circuito de Emisoras". - INT.-SIG.: 4 notes on vibraphone. - V. by QSL-card. 3) Maipu 555, B. Aires. - L.P.: Dir. Gen.: R. Razetti. - D. PRGR.: 09.45-04.30 on 1070 kc/s.

FOREIGN SERVICE: English, Spanish, Portuguese: D. 03.00-04.00 on 6120 kc/s, 11.00-12.00 on 15290/9660 kc/s. - ANN.: "LR1 R. El Mundo de Buenos Aires y su Red Azul y Blanca de Emisoras Argentina". - INT.-SIG.: Gong. - V. by QSL-card.

Medium Waves: 10.00-04.00 exc. where indicated.

4) R. Colon, Mendoza 369, San Juan. - L.P.: Dir. Gen.: A. Grafigna. 5) R. Independencia, Rivadavia 118/20, Tucuman. - L.P.: Dir.: A. L. Bruzzi. - D. PRGR.: 10.30-04.00.

6) R. Portaña, Rivadavia 827, Buenos Aires. Te.: 305031. - L.P.: Dir.: T. Bidegain. - D. PRGR.: 10.30-07.00.

7) R. Bariloche, Ruta Complement 237, Ci. de Bariloche. - L.P.: Dir.: C. Lamuniere. - D. PRGR.: 12.00-02.00.

8) R. Rivadavia, Arenales 2467, B. Aires. Te.: 80-1080. - L.P.: Dir.: J. Monk. - D. PRGR.: 24 h.

9) R. Concordia, La Rioja 622, Concordia. Te.: 1700. - L.P.: Dir.: C. Pinola. - D. PRGR.: 09.30-03.00.

10) R. Libertador, Rioja 1484, Mendoza. - L.P.: Dir.: M. V. Valenti.

11) R. Mercedes, Balcarce 470, Villa Mercedes. - L.P.: Dir.: A. Ponce. - D. PRGR.: 09.55-03.00.

12) R. Comodoro Rivadavia, Mo. Noreno 765, Ci. Rivadavia. - L.P.: Dir.: F. Balbuena. D. PRGR.: 09.00-05.00

13) R. Rio Gallegos, Av. San Martin 461, Rio Gallegos. Te.: 23. - L.P.: Dir.: A. R. Segovia. - D. PRGR.: 12.00-03.00.

14) R. Nihuil, Rioja 1239, Mendoza. Te.: 32148. - L.P.: Dir.: L. I. Cavallo. - D. PRGR.: 10.00-05.00.

15) R. San Rafael, Irigoyen y Francia, San Rafael. - L.P.: Dir.: S. Illa. - D. PRGR.: 09.55-03.55.

16) R. Catamarca, Rivadavia 741, Catamarca. - L.P.: Dir.: N. E. Morcos. - D. PRGR.: 10.55-03.05.

17) R. Mar del Plata, Moreno 2473, Mar del Plata. Te.: 20108. - L.P.: Dir.: E. Marin. - D. PRGR.: 24 h.

18) R. Mitre, Arenales 1925, B. Aires. - L.P.: Dir.: R. Garmendia. - D. PRGR.: 24 h.

19) R. Universidad de Córdoba, Rivera Indarte 170, Córdoba. - L.P.: Dir.: F. J. Garzón Macceda. Dir. Tec.: H. Blesio. - D. PRGR.: 09.30-04.00.

20) R. Rosario, Córdoba 1825, Rosario. - L.P.: Dir.: J. A. Peiretti.

21) R. Tucumán, Mendoza 273, S. Miguel de Tucumán. - L.P.: Dir.: A. M. Aldao. -

22) R. Bahía Blanca, Sarmiento 54, Bahía Blanca. Te.: 20201. - L.P.: Dir.: M. I. P. de Massot.

23) R. Córdoba, San Martín 74, Córdoba. - L.P.: Dir.: J. Joaquín Lasa. - D. PRGR.: 08.30-04.30.

24) La Voz de la Libertad, Maipú 166, Córdoba. - L.P.: Dir.: M. Bazan. - D. PRGR.: 09.30-04.30.

25) R. Jujuy, R. de Velazco 253, Jujuy. - L.P.: Dir.: C. E. Figueroa.

26) R. Excelsior, Rivadavia 827, B. Aires. - L.P.: Dir.: C. Mileo. - D. PRGR.: 10.00-05.00.

27) R. Misiones, Bolívar 322, Posadas. Te.: 929. - L.P.: Dir.: C. Madelaire. - D. PRGR.: 08.00-0.400.

28) R. Ranquel, Colón 78, Rio Cuarto. - L.P.: J. L. Baetti.

29) R. Splendide Rosario, Santa Fe 1388, Rosario. - L.P.: Dir.: P. Spoletti.

30) R. Libertad, Florida 165, B. Aires. - L.P.: Dir.: A. Romay. - D. PRGR.: 09.30-04.00.

31) R. Chaco, Av. 9 de Julio 1855, Resistencia. - L.P.: Dir.: J. B. Sobrado. - D. PRGR.: 09.30-03.00.

32) R. Los Andes, Mendoza 466, San Juan. - L.P.: M. V. Valenti.

33) R. Argentina, Santa Fe 2043, B. Aires. - L.P.: Dir.: A. Maida. - D. PRGR.: 09.00-04.00.

34) R. Neuquén, J. B. Alberdi 189, Neuquén. - L.P.: Dir.: A. Vanoli. - D. PRGR.: 09.59-03.30.

35) R. Güemes, Deán Funes 28, Salta. Te.: 5051. - L.P.: Dir.: M. P. Tato. - D. PRGR.: 10.00-05.00.

36) R. General San Martín, Alsina 247, Bahía Blanca. - L.P.: Dir.: R. Roscili.

37) R. Cerealista, Balcarce 840, Rosario. - L.P.: Dir.: A. M. Ciámpoli.

38) R. Del Norte, Libertad 251, Sgo. del Estero. - L.P.: Dir.: R. Rodríguez Lobo. - D. PRGR.: 10.00-03.00.

39) R. Antartida, Arenales 1925, B. Aires. - L.P.: Dir.: R. Garmendia. - D. PRGR.: 24 h.

40) R. Splendide, Mendoza 225, Tucumán. - L.P.: Dir.: O. M. Nazardín. D. PRGR.: 09.55-03.55.

41) R. Berón de Astrada, Mariano I, Llosa 231, Goya. - L.P.: Dir.: M. Gaudioso. - D. PRGR.: 10.00-03.00.

42) R. Azul, Av. Bartolome Mitre 819, Azul. Te.: 1102. - L.P.: Dir.: D. A. Santomauro.

43) R. de Cuyo, Av. Gral. San Martín y Gral. Paz, Mendoza Te.: 19360 - L.P.: Dir.: M. Fernández Reza. - D. PRGR.: 24 h.

Argentina - Brazil

- 44) R. Atlantica, Córdoba y San Martín, Mar del Plata. - L.P.: Dir.: A. J. Munoz. - D. PRGR.: 09.30-06.00.
 45) R. del Sur, Lamadrid 116, Bahía Blanca. Te.: 20381. - L.P.: Mgr.: H. Long. Dir. Tec.: J. Fernandez Presa. - D. PRGR.: 10.30-04.00. - N.: 10.10, 12.00, 13.00, 13.30, 14.00, 15.00, 17.00, 18.00, 19.00, 19.30, 20.00, 21.00, 22.30, 23.30, 24.00, 01.00, 02.00, 02.30, 03.05. - ANN.: "LU3 R. del Sur". - V. Re. in Sp., E., F., I.
 46) R. San Luis, Rivadavia 563, San Luis. - L.P.: Dir. Gen.: G. Nadal.
 47) R. Santa Fé, San Martín 2685, Santa Fé. Te.: 16086. - L.P.: Dir. Gen.: R. Savio. - D. PRGR.: 09.00-04.00.
 48) R. Concepción del Uruguay, O. Leguizamón 269, Concepción del Uruguay. - L.P.: Dir.: J. Korach. - D. PRGR.: 09.55-03.30.
 49) R. Necochea, Belgrano 3222, Necochea. Te.: 1630. - L.P.: Dir.: Dr. T. Rico. - D. PRGR.: 09.30-04.00.
 50) R. General Urquiza, Rivadavia 64, Paraná. - L.P.: Dir. Gen.: A. Vergara Bai.
 51) R. La Rioja, Soldado Perazzo 69, La Rioja. - L.P.: Dir.: R. A. Flores. - D. PRGR.: 11.00-04.00.
 52) R. Provincia de Corrientes, Ayacucho 2482, Corrientes. Te.: 4770. L.P.: Dir.: J. F. Gómez. - D. PRGR.: 09.30-04.00.
 53) R. del Pueblo, Santa Fé 2043, B. Aires. - L.P.: Dir.: A. Maida. - D. PRGR.: 09.00-03.00.
 54) R. General Madriaga, Av. Ldor. Gral S. Martín, P. de los Libres. - L.P.: J. J. Varela. - D. PRGR.: 10.00-03.00.
 55) R. Splendid, Presidencia Roque Sáenz Peña-Chaco. - L.P.: Dir.: R. R. Galotto. - D. PRGR.: 09.00-03.30.

★ BOLIVIA ★

L.T.: GMT ÷ 4 h. - Pr.L.: Spanish. - Po.: 3.700.000. - Rcvrs.: 255.000. - E.C.: 110/220 V., A.C., 60 c/s.

DIRECCION GENERAL DE RADIOCOMUNICACIONES

Departamento de Radiodifusión, La Paz. Te.: 2436.

L.P.: Dir. Gen.: G. Alcazar.

STATIONS: All st.'s comm. exc. 3) (Go.), 4), 18), 26) (Cultural), 12) (Rel.), 15), 16), 22) (Educational). * = inactive.

Short Waves:

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) CP39	4855	61.79	0.25		R. Cobija: 23.00-02.00
2) CP39	5860	51.20			R. Nacional Bolivia
3) CP5	*5975	50.21	10	1020	R. Illimani
4) CP41	5995	50.04	1	1300	R. Loyola: 11.00-14.00, 16.00-18.00, 22.00-02.00
5) CP18	6070	49.42	0.25		R. El Condor: 11.00-18.00, 22.00-04.00
6) CP15	6125	49.98	0.35	900	R. El Condor: 11.00-04.00
7) CP15	6135	48.90	0.5		R. Grigota: 12.00-24.00
8) CP30	6135	48.90	0.15	1390	R. Libertad: 11.00-04.00 ¹
9) CP40	6160	48.70	1	680	Emis. L.A.B.: 10.00-24.00
10) CP9	6185	48.50	0.45	930	R. Amauta: 11.00-13.00, 23.00-04.00 ²
11) CP23	6195	48.43	0.5		R. Guadalquivir: 12.00-02.00
12) CP38	9444	31.77	10	730	La Cruz del Sur: 11.00-03.00
13) CP6	9555	31.40	0.1	1020	R. Illimani: 11.00-04.00
14) CP22	9605	31.23	1		R. Universidad: see below
15) CP21	9715	30.88	0.5		R. La Plata: see below
16) CP39	11765	25.50	10	730	La Cruz del Sur: 11.00-03.00

¹) reported on 6230 kc/s. ²) reported on 6270 kc/s.

Medium Waves: Call: CP—, ° = Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
3) 2	550	5	23) 25	930	0.25	33) 29	1350	0.3
15) 62	620	1	24) 64	930	0.25	34) 53	1350	0.07
16) 68	620	1	3) 4	°1020	25	35) 28	1350	0.25
17) 56	620	0.15	25) 45	1090	0.03	8)	°1390	0.1
18) 55	680	0.25	26) 69	1090	0.25	36) 3	°1390	0.1
19) 34	680	0.25	27) 61	1090	0.1	37) 16	1390	0.1
9)	°680	0.1	28) 19	1145	0.3	38) 62	1390	0.1
12) 27	°730	10	29) 14	1250	0.25	39) 62	1420	0.25
20) 52	730	0.07	30) 57	1250	0.15	40) 36	1420	0.08
21) 35	810	0.25	31) 71	1250	0.15	41) 8	1470	0.25
6) 20	°900	0.25	32) 65	1250	0.25	42) 67	1550	0.5
10) 11	°930	0.15	4) 51	°1300	0.25	43) 72	1550	0.25
22) 66	930	0.25						

*) under construction.

Short Waves:

- 1) Centro de Acción Pandina, Cobija (Dept. Pando). - 2) La Paz.
 3) Emisora del Estado, Av. E. Camacho Edificio Krsul, La Paz. - V. by QSL-card.
 4) Cas. 155, Sucre. Cable: Radioloyola. Te.: 1277. - L.P.: Dir. Gen.: R. Aguilo. Dir. Tec.: J. Lora. - D. PRGR.: N.: 12.15, 18.30, 00.00, 01.45. - ANN.: "Radioemisoras Loyola, Voluntad Católica de Bolivia". - V. by letter. Re. in E, Sp, F or I.
 5) La Plata 1139, Oruro. - 6) Av. E. Camacho 41, La Paz.

- 7) Prefectura del Departamento, S. Cruz. - D. PRGR.: 12.00-24.00.
 8) Cas. de Correo 262, Santa Cruz de la Sierra. - D. PRGR.: M.w.: 11.00-04.00. - V. by QSL-card, letter, postcard & schedule.
 9) Lloyd Aero Boliviano, Hotel Bolívar, Cochabamba.
 10) Comercio 386, La Paz. - D. PRGR.: 10.30-14.00, 20.00-04.00.
 11) Prefectura del Departamento, Tarija.
 12) Cajón 8, La Paz. Te.: 5578. - Fl.: By Baptist Churches of Canada. - L.P.: Dir. Gen.: R. Bonney. Dir. Prgr.: E. Milton. Dir. Tec.: J. Mikaelson. - D. PRGR.: N.: 11.30, 12.00, 14.30, 17.00, 00.00, 02.00. English: D. 02.30-02.45. - "E. by R.". Mo., Wed., Fri.: 00.45 - "German by R.". Mo., Fri.: 23.15 - "French by R.". Mo., Wed., Fri.: 23.45. - ANN.: E.: "This is CP27 and CP39, the Southern Cross Radio Station...". Sp.: "R. La Cruz del Sur, Luz que señala el camino de la vida". - INT.-SIG.: Opens with "God of our Fathers"; closes with "The Heavens are telling". - V. by QSL-card. - PUB.: Prgr. sched. free on request. - FM: 95 mc/s 0.05 kW.
 13) Rectorado Universidad "Tomas Frías", Potosí. - D. PRGR.: 12.30-14.00, 15.00-17.30, 20.00-02.00.
 14) 25 de Mayo 41, Sucre. - L.P.: Dir.: G. Donoso D. - D. PRGR.: 12.30-14.00, 15.00-22.30.

Medium Waves:

- 15) R. San Gabriel, Casilla 1071, La Paz. - L.P.: Dir. Gen.: B. Ryan. Dir. Tec.: D. Pruss. - D. PRGR.: 11.00-12.30, 15.00-17.00, 20.30-01.00. - V. by letter or QSL-card.
 16) R. San Rafael, Cochabamba. - L.P. & D. PRGR.: as 15).
 17) La Voz Minera, Comando Movimiento Nacionalista Revolucionario Telemayo (Dep. Potosí).
 18) R. Universitaria, Universidad Técnica 6 de Octubre y Cochabamba, Oruro. - D. PRGR.: 11.00-12.00, 16.00-20.00, 22.00-02.00.
 19) R. Splendid, Pasaje Belle Vista 212, La Paz. - D. PRGR.: 12.15-13.00, 14.30-18.00, 22.00-02.30.
 20) R. Potosí, Sucre 79, Potosí. - L.P.: Dir.: E. Rodríguez S. - D. PRGR.: 13.00-15.00, 16.00-20.00, 00.30-03.00.
 21) R. Altiplano, Av. E. Camacho 62, La Paz. - L.P.: Dir.: M. Carasco V. - D. PRGR.: 11.00-05.00.
 22) R. Roosevelt, "Academias Roosevelt", Cochamba.
 23) R. Libertad, Calvo 10, Sucre. - L.P.: Dir.: J. Taboada M. - D. PRGR.: 11.30-13.30, 18.00-20.00, 00.00-02.00.
 24) R. Chorolque, Conjunto Teatral "Nuevos Horizontes", Tupiza (Dept. Potosí). - D. PRGR.: 16.00-18.00, 22.00-03.00.
 25) R. Cultura, Tumusla Av. 14 de Enero, Cochabamba. - L.P.: Dir.: J. Maldonado M. - D. PRGR.: 11.30-13.00, 15.00-18.00, 21.00-02.30.
 26) R. Universidad, Rectorado Universidad Mayor de "San Andrés", Av. Eleodoro Villazón, La Paz.
 27) R. Uyuni, "La Voz del Ferrovial", Litoral 338, Uyuni (Dept. Potosí). - D. PRGR.: 11.00-13.00, 15.00-18.00, 22.00-01.00.
 28) R. Aspiazu, Indaburo 434, La Paz. - L.P.: Dir.: H. A. Aspiazu. - D. PRGR.: 11.30-19.00, 21.00-03.30.
 29) Emisoras Unidas, Av. E. Camacho 318, La Paz. - D. PRGR.: 11.30-18.00, 20.30-03.00.
 30) R. 9 de Abril, Comando Movimiento Nacionalista Revolucionario, Pulacayo (Dept. Potosí). (Reported using s.w. 5910 kc/s).
 31) R. Cordillera, Santa Cruz. - D. PRGR.: 14.00-18.00, 22.00-02.00.
 32) R. Oruro, Oruro. - D. PRGR.: 14.00-19.00, 21.00-03.00.
 33) R. Indoamerica, Hoyos 42, Potosí. - L.P.: Dir.: M. A. Careaga. - D. PRGR.: 12.00-14.00, 15.30-18.00, 21.00-03.00.
 34) R. Cochabamba, Nataniel Aguirre 341, Cochabamba. - D. PRGR.: 11.00-14.00, 16.00-18.00, 23.00-03.00.
 35) R. Bolivia, Capitan Castrillo 176, La Paz. - D. PRGR.: 12.00-14.00, 16.00-18.00, 23.00-03.00.
 36) R. Los Andes, 15 de Abril 828, Tarija. - L.P.: Dir.: E. Monje. - D. PRGR.: 16.00-18.30, 00.30-02.30.
 37) La Voz del Minero, Corp. Minera de Bolivia, Llallagua.
 38) R. Excelsior, Sucre 657, La Paz. - L.P.: Dir.: C. Fernandez I. - D. PRGR.: 11.30-18.00, 20.00-03.00.
 39) R. Fides, Colegio San Calixto, Jenaro Sanjinés, La Paz. - D. PRGR.: 11.00-13.00, 16.00-18.00, 22.00-03.00.
 40) R. Mercurio, Caro 560, Oruro. - L.P.: Dir.: J. M. Irahola. - D. PRGR.: 11.00-15.00, 16.00-04.00.
 41) R. America, Junin 660, La Paz. - L.P.: Dir.: L. Salcedo P. - D. PRGR.: 11.00-14.00, 16.00-18.00, 22.00-04.00.
 42) R. Pio XII, Siglo XX (Dept. Potosí). - L.P.: Padres Oblatos. - D. PRGR.: 10.00-11.00, 15.30-17.00, 21.00-02.30. (Reported using s.w. 5950 kc/s).
 43) R. Luis de Fuentes, Tarija. - L.P.: Dir.: A. E. Villena. - D. PRGR.: 14.00-16.00, 22.00-02.00.

★ BRAZIL ★

L.T.: Eastern (Coastal): GMT ÷ 3 h. Western: GMT ÷ 4 h. - Pr.L.: Portuguese. - Po.: 61.275.000. - Rcvrs.: 4.700.000. E.C.: Brasília: 220/380 V., A.C., 60 c/s. - Sao Paulo: 120 V., A.C., 60 c/s. - Rio de Janeiro: 120 V., A.C., 50 c/s.

STATIONS: Short Waves: *)=inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) Call	2360	127.1	0.25	1560	R. Cultura do Nordeste: 03.00-05.00	57) ZYE-	4945	60.67	1	1480	R. Educadora de Brangança
2) ZYB-					R. Dif. Parintins	58)	4955	60.54	2	1110	R. Cultura de Campos: 09.00-02.30
3) *	2370	126.6		1550	R. Cl. Fluminense	59) ZYV9	4975	60.30	2.5	1490	R. Timbira: 09.00-02.00
4) ZYV71	2390	125.5	0.5	1550	R. Por um Mundo Melhor: 09.00-14.15, 18.00-02.00	60) ZYP27	4975	60.30	1	680	R. Copacabana: 09.00-03.00
5) ZYR-	*2390	125.5	0.5		R. Cultura de Monte Alto	61) ZYZ5	4985	60.18	1.5	1160	A. Voz de Oeste: 09.00-02.30
6)	2410	124.1	1		R. Sirena: 11.00-14.00, 20.55-24.00	62) ZYX2	4995	60.06	5	1270	R. Brasil Central: 08.00-04.00
7) ZYW32	2420	124.0	1	1480	R. Carajá de Anápolis: 09.00-03.00	63) ZYX24	5025	59.70	1	1330	R. Dif. de Aquidauana
8)	2420	124.0	0.5	1590	R. São Carlos: 09.00-03.00	64) ZYW22	5035	59.58	1	1370	R. Anhanguera: 08.55-04.00
9) ZYF-	2420	124.0	0.25		R. Dif. Carolina	65)	5035	59.58	0.5	1160	R. Espírito Santo: 09.00-03.00
10) ZYR231	2450	122.5	0.5	1330	R. Cultura de Aracatuha: 09.00-03.00	66) ZYP23	5045	59.46	10	1320	R. Rio de Janeiro: 09.00-03.00
11) ZYR99	2460	122.0	0.5	1250	R. Cacique de Sorocaba: 09.00-03.00	67)	5045	59.46	1		R. Quitandinha: testing
12) ZYR62	3255	92.17	0.5	1090	R. Cl. de Marília: 09.00-04.00	68) ZYO23	5055	59.35	2	730	R. Vitória: 10.00-02.00
13) ZYR92	3265	91.87	4	780	R. Ribeirão Preto: 21.00-04.00	69) ZYR226	5955	50.38	10	890	R. Gazeta: 10.30-04.00
14) ZYK21	3265	91.87	1	890	R. Tamandaré: 09.00-03.00	70) ZYU60	5965	50.28	7.5	720	R. Guaíba: 09.00-21.00
15) ZYR31	3275	91.60	1	1210	Bauru R. Clube: 09.00-03.00	71) ZYT44	5975	50.21	10	1420	R. Guarujá: 09.00-02.30
16) ZYR89	3285	91.32	1	1600	R. Aparecida: 09.00-03.00	72) PRK5	6000	50.00	5	880	R. Inconfidência: 08.30-04.00
17) ZYH31	3305	90.77	1	1400	R. Educadora do Cariri: 09.00-17.00, 20.00-02.30	73) PRA8	6015	49.88	5	720	R. Cl. de Pernambuco: 09.00-03.00
18) ZYR220	3325	90.23	0.1	1440	R. Dif. Hora Certa	74) ZYR63	6025	49.79	10	1200	R. Emis. Piratininga: 08.25-06.00
19) ZYJ21	3325	90.23	1	1350	R. Borborema: 08.25-03.15	75) ZYZ26	6035	49.71	10	1180	R. Globo: 08.45-04.00
20) ZYR59	3335	89.95	0.5	820	R. Pres. Prudente: 10.00-04.00	76) ZYS33	6045	49.63	7.5	1440	R. Cl. Paranaense: 09.00-03.43
21)	*3335	89.95	1/10	1130	R. Marajoara	77) PRB21	6055	49.55	7.5	620	R. Panamericana: 11.00-03.00
22) ZYV30	3340	89.81	0.5	1470	R. Dif. Brasileira: 09.30-04.00	78) ZYZ31	*6065	49.46	7.5		R. Rural Brasileira
23) ZYS45	3365	89.15	0.5	690	R. Dif. do Paraná: 24 h.	80) ZYK2	*6085	49.30	15	1210	R. Nacional Brasília
24) ZYK78	3375	88.88	1	1030	R. Olinda de Pernambuco: 08.45-03.00	81) ZYB7	6095	49.22	25	780	R. Jornal do Comércio
25) ZYF24	4735	63.35	5	680	R. Dif. do Maranhão: 08.30-11.00, 13.00-16.00, 19.00-02.00	82) ZYN6	6105	49.14	5	960	R. Dif. de São Paulo: 10.00-03.05
26) ZYV3	4755	63.09	1	1270	R. Brasil: 09.00-04.00	106) ZYC7	6115	49.06	100	1200	Ceará R. Clube: 21.00-04.00
27) ZYR37	4765	62.96	1	970	R. Soc. Feira de Santana	84) PRG9	6125	48.98	10	1280	R. Tupi: 08.45-03.35
28) ZYR81	4775	62.84	5	690	R. Progresso de São Paulo: 09.00-02.00	85) PRC21	6135	48.90	7.5	1100	R. Nac. de São Paulo: 09.00-05.00
29) ZYH29	4775	62.84	5	690	R. Dragão do Mar: 08.30-03.00	86) PRL9	6145	48.82	50	680	R. Soc. Gaúcha: 09.00-03.00
30) ZYV20	4785	62.70	1		R. Dif. de Guaporé: 12.00-02.30	87) ZYR58	6165	48.66	7.5	980	R. Nac. Rio de Janeiro: 08.15-04.10
31) ZYM8	4785	62.70	0.5	1410	R. Ribamar: 09.00-02.00	88)	6175	48.58	10	1300	R. Cultura: 09.00-02.30
32) ZYV-	*4795	62.57	1	1080	R. Cultura de Cambuquira	89) ZYR77	6185	48.50	10	1340	R. Guarani: 09.00-04.00
33) PRI4	4795	62.57	2	1110	R. Tabajara: 21.00-03.00	90) PRD21	6195	48.43	10	840	R. Bandeirantes: 08.00-03.00
34) ZYS8	4805	62.43	5	1240	R. Dif. do Amazonas: 10.00-17.00, 19.00-03.05	91) PSL	7935	37.81	20	1030	Emis. Continental: see below
35) ZYP33	4815	62.31	1	1480	Petropolis R. Dif.: 10.30-03.00	92) PRN9	9295	32.28	2.5		Agência Nacional: W. 22.30-23.00
36) ZYH27	4815	62.31	1	1300	R. Itacema de Fortaleza: 08.00-03.00	93) PRD5	*9515	31.53	1	760	R. Dif. do D.E.S.P.: W. 22.30-02.00
37) ZYV56	4825	62.18	0.5	1210	R. Cl. de Varginha: 11.00-01.00	94) ZYS43	9545	31.43	7.5	1000	R. Record: 22.00-02.30
38) ZYE7	4825	62.18	0.5	1470	R. Educadora de Parnaíba: 14.00-16.00, 21.30-01.00	80) ZYK3	9565	31.57	15	1400	R. Roquete Pinto
39) ZYV37	4835	62.05	0.5	1390	R. Soc. Triângulo Mineiro: 10.00-02.30	95) ZYZ27	9575	31.33	10	1210	R. Emis. Paranaense: 09.00-01.00
40)	*4835	62.05	1		R. Dif. Roraima	96) ZYR56	9585	31.30	7.5	780	R. Jornal do Comércio: 09.55-16.05, 18.00-02.20
41) ZYU8	4845	61.92	0.5	1370	R. Dif. de Teresina: 08.30-02.00	48) ZYN29	9595	31.27	10	1220	R. Mayrink Veiga: 09.00-03.00
42) ZYR61	4855	61.79	1	720	R. Dif. Taubaté: 09.00-03.00	106) ZYC8	9610	31.22	10	670	R. Excelsior: 09.00-06.00
43) PRC5	4865	61.66	2	1330	R. Cl. do Para: 21.00-03.00	97) ZYR96	9620	31.19	10	1120	R. Cultura da Bahia: 08.00-04.00
44) ZYZ30	4875	61.54	5	940	R. Jornal do Brasil: 09.00-04.00	16) ZYR83	9635	31.14	7.5	1280	R. Tupi: 08.45-03.35
45) ZYD9	4885	61.41	1	1460	R. Dif. Rio Branco: 21.00-01.30 (Sun. 19.45-01.30)	46) ZYV40	9645	31.10	7.5	540	R. 9 de Julho: 09.00-03.00
46) ZYV30	4885	61.41	5	1350	R. Cultura de Pocos de Caldas: 09.00-03.00	79)	9665	31.04	10	1600	R. Aparecida: 09.00-03.00
47) ZYB22	4895	61.29	2.5	1480	R. Baré: 09.00-17.30, 20.30-02.30	98) ZYT29	9675	31.01	10	1350	R. Cultura de Pocos de Caldas: 09.00-22.00
48) ZYN22	4895	61.29	1	1120	R. Cultura da Bahia	69) ZYR227	9685	30.98	10	1210	R. Nacional, Brasília: 10.00-04.00
49) ZYZ22	4905	61.16	5	590	R. Relógio Federal: 07.00-04.00	99) ZYB22	9695	30.94	7.5	1010	R. Diário da Manhã: 09.00-03.00
50) ZYR60	4915	61.04	1	1370	R. Cultura de Araraquara: 08.00-03.00	100) ZYZ24	9705	30.91	10	890	R. Gazeta: 10.30-04.00
51) ZYE2	4915	61.04	1.5	1460	R. Dif. de Macapá: 09.45-17.30, 20.00-01.00	86) PRL7	9720	30.86	50	1480	R. Rio Mar: 09.30-12.00, 14.30-18.00, 21.00-01.00
52) ZYL-	4915	61.04	1	1490	Emis. Rio São Francisco: testing	101) ZYU59	9730	30.83	7.5	1130	Fundação R. Maua: 08.00-03.15
53) ZYV32	4925	60.90	1	1090	R. Industrial de Juiz de Fora: 09.00-03.00	87) ZYR57	9745	30.79	7.5	980	R. Nac. Rio de Janeiro: 08.15-04.10
54) ZYI21	4935	60.80	1	1270	R. Poti: 08.00-12.00, 14.00-16.00, 20.00(Sun. 08.00)-03.00	62) ZYW23	9755	30.76	7.5	600	R. Soc. Farroupilha: 08.45-04.00
55) ZYO25	4945	60.67	1	1370	R. Capixaba: 09.00-03.00	104) PRL4	9770	30.71	7.5	1300	R. Cultura: 09.00-02.30
56) ZYF22	4945	60.67	0.25		R. Dif. Mearim	91) PSH	10220	29.35	20	1270	R. Brasil Central: 08.00-04.00
						79) PRL8	*11720	25.60	10	800	R. Ministério da Educação e Cultura: 10.00-12.00, 15.00-04.00
						102) ZYW28	11735	25.56	7.5		Agência Nacional: W. 22.30-23.00
						74) ZYR65	*11745	25.54	10	1210	R. Nacional Brasília
						81) ZYB8	11765	25.50	25	1320	R. Cl. de Goiânia: 09.55-05.00
						95) ZYZ28	11775	25.48	10	1200	R. Emis. Piratininga
										960	R. Dif. de São Paulo: 09.00-03.00
										1220	R. Mayrink Veiga: 09.00-03.30

Brazi

Call	ke/s	m	kW	m.w.	Name and h. of tr.	Call	ke/s	kW	Call	ke/s	kW
70) ZYU61	11875	25.46	7.5	720	R. Guaiaba: 21.00-04.00	152) ZYH3	930	5/0.25	202) ZYX22	1300	1
75) ZYZ36	11805	25.41	10	1180	R. Globo: 08.45-22.30	44) PRF4	940	50	203) ZYR201	1320	1
62) ZYW24	11815	25.39	7.5	1270	R. Brasil Central: 08.00-04.00	81) PRF5	960 ¹	10/5	102) ZYG3	1320 ¹	10
80) ZYK32	11825	25.37	15	780	R. Jornal do Comércio	153) ZYO4	960	10	66) ZYZ34	1320 ¹	10/5
73) PRA8	11865	25.28	7.5	720	R. Cl. de Pernambuco: 09.00-03.00	154) ZYF5	960	1/0.25	204) PRH4	1320	1/0.5
103) ZYN32	11875	25.26	10	740	R. Soc. da Bahia: 09.00-04.00	27) ZYR3	970	0.25	205) ZYT31	1320	1/0.25
85) PRC20	11915	25.18	7.5	680	R. Soc. Gaucha: 09.00-03.00	155) ZYH32	970	1	10) PR18	1330	1
89) ZYR78	11925	25.16	10	840	R. Bandeirantes: 08.00-03.00	156) ZYI26	970	1	43) PRC5	1330	10
76) ZYS35	11935	25.14	7.5	1440	R. Cl. Paranaense: 10.00-03.00	157) ZYI2	970	5	63) ZYX20	1330	0.25
104) PRL3	11950	25.10	7.5	800	R. Ministério da Educação e Cultura: 10.00-12.00, 15.00-04.00	86) PRE8	980 ¹	50	206) ZYV33	1330	1/0.5
77) PRB24	11965	25.07	7.5	1000	R. Record: 22.00-02.30	77) PRE9	1000 ¹	50	207) ZYI5	1330	1/0.5
91) PSF	14690	20.45	20		Agência Nacional: W. 22.30-23.00	158) PRB3	1010	2/0.5	208) PRC4	1330	1/0.5
78) ZYZ32	15105	19.86	7.5		R. Rural Brasileira: W. 10.00-12.00, 20.00-22.00	98) ZYT26	1010	10	209) ZYR49	1340	1
105) *	15115	19.85	7.5	560	R. Soc. Guairaca	159) PRB8	1020	20	88) PRH6	1340 ¹	25
103) ZYN31	*15125	19.83	10	740	R. Soc. da Bahia	160) PRB8	1030	1/0.25	210) ZYX2	1340	1
77) PRB23	15135	19.82	7.5	620	R. Panamericana 11.00-03.30	24) ZYK7	1030 ¹	5	211) ZYX5	1340	1/0.25
80) ZYK33	15145	19.81	15	780	R. Jornal do Comércio: 09.55-02.20	90) PRD8	1030	7.5	46) PRH5	1350	5
81) ZYB9	15155	19.80	25	960	R. Dif. de São Paulo: 12.00-20.30	161) PRG2	1040	50	19) ZYO7	1350 ¹	1
82) ZYN7	15165	19.78	5	1200	Ceará R. Clube: 09.00-21.00	162) PRD2	1060	10	212) PRC8	1360 ¹	10
72) PRK9	15190	19.75	5	880	R. Inconfidência: 08.30-04.00	163) PRB7	1080	1/0.5	213) ZYH25	1360	10
59) ZYV9	*15215	19.71	2.5	1490	R. Timbira	164) ZYN24	1080	1/0.5	50) PRD4	1370 ¹	1
48) ZYN30	*15225	19.70	10	1120	R. Cultura da Bahia	165) ZYV47	1080 ¹	1/0.25	55) ZYO22	1370	1
21) ZYE21	15245	19.68	1/10	1130	R. Marajoara: 09.00-21.00, 01.00-02.00	32) ZYV52	1080	0.25	214) ZYK31	1370 ¹	5
84) PRG9	15265	19.66	10	1100	R. Nac. de São Paulo	166) ZYB4	1080	1/0.5	64) ZYW21	1370	1
86) PRL8	15295	19.62	10	980	R. Nacional Rio de Janeiro: 08.15-04.10	167) ZYX7	1080	1/0.25	41) ZYQ3	1370	1
69) ZYR228	15325	19.58	10	890	R. Gazeta: 10.30-21.00	168) ZYU6	1080	1/0.5	215) ZYF3	1370	5
101) ZYU68	15335	19.56	7.5	600	R. Soc. Farrroupilha: 08.45-04.00 irregularly	169) ZYU47	1080 ¹	2/0.5	39) PRE5	1390	1/0.25
106) ZYC9	15370	19.52	10	1280	R. Tupi: 08.45-03.35	12) PRI2	1090	1	216) ZYS46	1390	1
107) ZYR206	15415	19.46	1	730	R. Cl. de Ribeirão Preto: 09.00-13.00, 19.00-03.00	33) TYR9	1090	1	217) ZYH2	1390	1/0.5
79) *	15445	19.43	10	1210	R. Nacional, Brasília	170) ZYT38	1090 ¹	1/0.25	17) ZYH30	1400	5
108) ZYR232	17725	16.93	1		R. Universitaria Santos Dumont: 23.00-02.00	171) ZYN25	1090	1	93) PRD5	1400	10/5
34) *	17795	16.86	5	1240	R. Dif. do Amazonas	172) ZYI25	1090	1	31) ZYF21	1410	1
87) *	17815	16.84	10	1300	R. Cultura: 09.00-02.30	84) PRG9	1090	50	218) PRF7	1410 ¹	25/10
86) PRL9	*17850	16.81	10	980	R. Nac. Rio de Janeiro	173) ZYU50	1100 ¹	1/0.25	219) ZYH26	1410	10
104) PRL2	*17875	16.79	7.5	800	Ministerio da Educação	33) PRI4	1100 ¹	10	220) ZYI4	1420	1/0.25
Medium Waves:	°=Short Waves.					58) PRF7	1110	1/0.25	71) ZYJ7	1420 ¹	5
Call	ke/s	kW	Call	ke/s	kW	174) ZYT25	1110	1/0.25	222) PRE2	1430	10/5
97) ZYR98	°540 ¹	10	133) PRC7	690 ¹	25/10	48) ZYN20	1120 ¹	20	223) ZYH5	1430	1
109) ZYZ22	550 ¹	10	23) ZYS44	°690	0.25	100) PRH8	1130	25	224) ZYT39	1430	1/0.25
110) ZYN4	560	1/0.25	135) ZYU83	690	1	21) ZYE20	1130 ¹	10	18) ZYR207	1440 ¹	0.1
105) ZYM5	°560	10	136) ZYW3	690	1	177) ZYI24	1130	1	76) PRB2	1440 ¹	20
111) PRG5	580	1/0.5	42) ZYA8	°720 ¹	1	178) ZYU77	1130	1/0.25	225) ZYX-	1440	1/0.1
112) ZYM3	580	1/0.5	73) PRA8	°720	0.25	179) ZYT34	1130	1/0.25	226) PRB4	1450	5/2
113) ZYM25	580 ¹	1/0.5	70) ZYU58	°720 ¹	10	180) ZYK34	1130	1	227) ZYJ20	1450	1
49) ZYZ21	°590 ¹	5/1	68) ZYO21	°730	1	181) ZYR217	1130 ¹	3	228) ZYP36	1450	5/0.25
114) ZYSS0	590	1/0.5	107) PRA7	°730 ¹	1	182) ZYH7	1160	1/0.25	229) ZYD9	1460	0.25
101) PRH9	°600 ¹	50	137) ZYW53	730	1	65) PRI9	°1160	10	36) ZYH22	1460	1
77) PRH7	°620 ¹	10/5	138) ZYO9	730	1/0.25	61) PRH3	°1160	1	51) ZYE2	1460	0.25
115) *	620	10	139) ZYR80	730	2.5	183) PRF5	1160	1	230) ZYF20	1460	0.25
116) ZYX25	630	1	140) ZYH8	730	1	185) PRC9	1170 ¹	5	231) PRH2	1460	20
117) ZYV44	630	1	103) PRA4	°740 ¹	50	186) ZYI20	1170	1	232) ZYS34	1460	0.25
118) ZYA3	630	1	92) PRN9	°760	2	187) ZYU72	1170	1/0.25	233) ZYH3	1470	1/5
119) PRJ6	630	1	80) PRL6	°780	20	188) ZYU38	1170	1/0.25	234) ZYD2	1470	1/0.5
120) ZYV29	630	1	141) ZYP30	°780	0.25	75) PRE3	°1180 ¹	50	22) PRC6	1470 ¹	1/0.5
121) ZYG29	630	5/0.25	13) ZYR79	°780	0.25/0.1	74) PRB6	°1200	10	235) ZYB6	1470	1
122) ZYU37	630	1	104) PRA2	°800 ¹	25	82) PRE9	°1200	10	38) PRJ4	1470	0.5
123) ZYM6	630	1	142) ZYA4	°820	1/0.25	79) *	°1210	10/1	236) ZYN3	1470	1/0.5
124) ZYR219	640	1/0.25	120) PRI5	°820	0.25	15) PRG8	°1210	1	7) ZYJ3	1480	0.5
125) PRG6	640	1/0.5	143) *	820	1	189) ZYI9	°1210	1/0.5	47) ZYS20	1480 ¹	10
126) ZYI21	640	1	89) PRH9	°840 ¹	10/5	37) ZYB2	°1210	1	99) ZYB20	1480 ¹	1
94) ZYS47	640	1	144) ZYD8	840	10/5	94) ZY29	°1210	1	237) ZYH	1480	1
127) PRF9	640	10/5	145) ZYT33	840	1	95) PRA9	°1220 ¹	50	35) PRD3	1480	5
128) ZYM22	670	10	146) PRA3	860 ¹	50	34) ZYB21	°1240	5	57) ZYE-	1480	0.25
96) ZYR56	°670 ¹	10	72) PRI3	°880 ¹	50	190) ZYC4	1240	1/0.5	59) PRJ9	1490	2.5
25) ZYF23	°680	5	147) ZYU33	880	10	191) ZYT43	1240	0.1	238) ZYA2	1490	0.1
129) ZYD7	680	5	69) PRA6	°890 ¹	10	192) ZYP4	1240	1/0.5	239) ZYU-	1490	0.1
130) ZYK26	680	1	14) ZYK20	°890 ¹	20	193) PRB5	1240	1	52) ZYL-	1490	0.25
131) ZYS65	680	1	148) ZYI23	900	10	194) ZYU76	1240	1/0.25	240) ZYI	1512	1
60) ZYP20	°680 ¹	5	83) PRB7	°900 ¹	5	11) ZYR43	°1250	0.1	241) ZYK9	1530	1
85) PRC2	°680 ¹	10/5	149) PRJ3	930	5	195) PRJ2	1250	1/0.5	242) ZYS9	1540	1/0.1
132) ZYR55	690	1/0.1	150) ZYT3	930	5/0.25	196) ZYO3	1250	1	243) *	1540	25
29) ZYH29	°690	10	151) ZYM20	930	5	197) PRA5	1260 ¹	10/5	3) ZYP39	°1550 ¹	0.25
						198) *	1260	10	4) ZYV64	°1550 ¹	0.25
						62) ZYX9	°1270 ¹	10	1) ZYK30	°1560 ¹	1
						26) ZYR39	°1270 ¹	0.25	244) ZYN33	1560	1
						199) ZYS23	1270	1/0.25	245) ZYP26	1560	1
						200) ZYV62	1270	1	246) ZYU23	1570 ¹	1/0.1
						201) ZYU44	1270	1	247) ZYSS6	1570	10
						54) ZYR5	°1270 ¹	1	248) ZYO3	1580	1/0.5
						106) PRG3	°1280 ¹	50	8) ZYA6	°1590	0.25
						87) PRE4	°1300 ¹	10/5	249) ZYR4	1600	0.1
						36) ZYR7	°1300 ¹	10	16) ZYR44	°1600	0.1

States-Abbreviations: AM=Amazonas; BA=Bahia; CE=Ceará; ER=Estado do Rio; ES=Espirito Santo; GO=Goiás; MA=Maranhão; MG=Minas Gerais; MT=Mato Grosso; PB=Paraíba; PE=Pernambuco; PI=Paraíba; PR=Paraná; RJ=Rio de Janeiro; RD=Rondônia; RGN=Rio Grande do Norte; RGS=Rio Grande do Sul; SC=Santa Catarina; SE=Sergipe; SP=São Paulo.

Short Waves:

- 1) Edif. São José, Caruaru, PE. - L.P.: Dir. Gen.: F. Soares Lyra. Dir. Tec.: A. Nazareth. - D. PRGR.: m.w.: 08.55-04.00. N.: every h. on the h. - V. by QSL-card and letter. Prgr.schedule free on request.
- 2) Parintins, AM.
- 3) Rua Manuel Francisco da Rosa 84, São João de Meriti, RJ.
- 4) C.P. 377, Governador Valadares, MG. - L.P.: Dir. Gen.: Rev. P. H. van der Feesten. Dir. Tec.: M. M. Emery. - D. PRGR.: m.w.: 09.00-02.00. N.: 09.45, 11.00, 14.45, 15.55, 22.00, 23.25, 01.05. - ANN.: "R. Por Um Mundo Melhor". - V. by letter. Re. in P., F., E., G., D., Sp. or I. - Prgr.schedule free on request.
- 5) Jaboaticabal, SP.
- 6) C.P. 6, Leopoldina, MG. Cable: Sirena. - L.P.: Dir. Gen.: G. M. Monteiro. Dir. Prgr.: Prof. J. S. da Costa. Dir. Tec.: M. D. Machado. D. PRGR.: N.: 23.50. Cultural N. 13.50 Tues., Thurs. - ANN.: "Ouvem R. Sirena, Emissora do Sistema R. Educativo Nacional, ondas tropicais... e frequência modula 106.5 mc/s, Leopoldina, Minas Gerais, Brasil". - V. by letter. Re. in P., E. or Sp. Prgr.schedule free on request. F. PL.: English prgr. monthly.
- 7) Praça Bom Jesus 313, Anápolis, GO. - L.P.: Dir.s: P. Jayme, F. Cunha, C. Guerra, E. Simonetti. - ANN.: "Através de suas emissoras de ondas médias e curtas, está transmitindo a R. Carajá, de Anápolis, Brasil".
- 8) C.P. 11, São Carlos, SP. - L.P.: Pres.: G. Rossi. - V. by letter.
- 9) Carolina, MA.
- 10) C.P. 246, Aracatuba, SP. Te.: 2270. - L.P.: Dir. Gen.: J. Baptista Brussolo. Dir. Tec.: M. Pereira. - D. PRGR.: N.: 15.15, 22.00. Japanese: N. 12.00-12.30. - ANN.: "Emissora brasileira da R. Cultura de Aracatuba PR18, 1330 kc/s, ondas médias e ZYR231, 2450 kc/s, ondas tropicais". - V. by letter.
- 11) Rua Miranda Azevedo 311, Sorocaba, SP.
- 12) Rua Paes Leme 20, Marília, SP. - L.P.: Dir. Gen.: O. Lignelli. - D. PRGR.: Japanese: 00.00-00.45.
- 13) C.P. 814, Ribeirão Preto, SP.
- 14) Av. Cruz Cabuga 394, Recife, PE.
- 15) C.P. 446, Bauru, SP. - L.P.: Dir. SW Dept.: G. Perolo. - V. by QSL-card. R.p. for airmail.
- 16) Praça NS Aparecida 315, Aparecida, Te.: 2197. - L.P.: Dir. Gen.: Rev. R. L. Galvão. Dir. Tec.: Prof. J. Baronto. - ANN.: "R. Aparecida, a mais poderosa emissora católica das Américas". - V. by letter. R.p. Re. in P., E., Sp., G., F. or I. Prgr.schedule free on request.
- 17) Rua Cel Antonio Luiz 68, Crato, CE. - L.P.: Pres.: V. P. Araújo.
- 18) Guarulhos, SP. - D. PRGR.: Japanese: 15.00-17.00.
- 19) C.P. 160, Campina Grande, PB. - L.P.: Dir. Gen.: H. Carneiro Mota. Dir. Tec.: J. C. de Albuquerque. - ANN.: "R. Borborema, Emissoras Associadas de Campina Grande". - V. by letter. Re. in E., F., Sp., I., P. - Prgr.schedule on request.
- 20) C.P. 5, Pres. Prudente, SP. - L.P.: Dir. Gen.: A. Campos. - D. PRGR.: Japanese: 12.00-12.30, 23.00-23.30. - ANN.: "R. Presidente Prudente, uma das Emissoras Coligadas, falando para todo o Brasil" or "PR15 e ZYR59, R. Difusora de Presidente Prudente, uma das Emissoras Coligadas, transmitindo simultaneamente em ondas médias e curtas, 1240 kc/s, onda de 242.5 mts. e 3335 kc/s, onda de 89 mts.". 21) C.P. 491, Belém, Para. - L.P.: Dir.: F. Barata.
- 22) C.P. 173, Uberlândia, MG. - V. by letter.
- 23) C.P. 1870, Londrina, PR. - L.P.: Dir. Gen.: Dr. R. Zanoni. - D. PRGR.: Japanese: 23.00-23.30.
- 24) C.P. 1313, Recife, PE. - D. PRGR.: 1030 kc/s: 08.45-06.00. - ANN.: "R. Olinda, a emissora da família pernambucana".
- 25) C.P. 152, São Luiz, MA. - V. by letter.
- 26) C.P. 625, Campinas, SP. - L.P.: Pres.: A. Pedrosa. Dir. Gen.: S. Pedrosa. - D. PRGR.: Japanese: 09.00-10.00, 20.30-21.00. - ANN.: "ZYV3 - R. Brasil de Campinas - ZYR39 - R. de Valinhos emissoras brasileiras da Organização Irmãos Pedrosa". - V. by letter.
- 27) Feira de Santana, BA.
- 28) Av. Liberdade 1034, São Paulo. Te.: 32-8708. - L.P.: Dir. Gen.: C. Mero. Dir. Tec.: L. C. Fisher. - F. PL.: M.w.
- 29) Rua P. Pereira 383, Fortaleza, CE. - L.P.: Dir. Gen.: M. S. Pimentel. D. PRGR.: Jornal das Tres Americas (News in Sp., E., P.): 02.23-02.36. N. in Portuguese: W. 14.50, D. 01.35. - ANN.: "R. Dragão do Mar, a emissora do Ceará que o mundo escuta". - V. by letter.
- 30) Av. Ferquar, Guaporé, Porto Velho, RD. - V. by letter or QSL-card.
- 31) Rua do Apium 118-130, São Luiz, MA.
- 32) Cambuquira, MG.
- 33) Rua Rodriguez de Aquino s/n, João Pessoa, PB. - L.P.: Dir. Gen.: A. Borreto. Dir. Tec.: J. de Oliveira. - D. PRGR.: N. 21.45, 24.00, 01.35. - ANN.: PR14, R. Tabajara da Paraíba transmitindo em ondas curtas e médias. - V. by letter. Re. in E, Sp, F.
- 34) Rua Joaquim Sarmento 100, Manaus, AM.

- 35) Praça D. Pedro II°, 17, Petropolis, ER. Cable: Difusora. - L.P.: Dir. Gen.: W. C. Malta. Dir. Tec.: I. Nicolay. - D. PRGR.: N.: 16.00, 23.25, 01.05, 02.45. - ANN.: "Emissoras de ondas médias e curtas da Petropolis R. Difusora, o microfone lider do Estado do Rio". - V. by letter.
- 36) C.P. 578, Fortaleza, CE. - L.P.: Dir. Gen.: F. B. Barreto.
- 37) C.P. 102, Varginha, MG. - L.P.: Dir. Gen.: F. Sousa Moraes. Dir. Tec.: Dr. O. C. Corsini. - D. PRGR.: N.: 14.15, 21.15. - ANN.: "Emissoras de Varginha, ZYB-2 e ZYV-56, em ondas curtas e médias". V. by letter. Re. in P., Sp., E.
- 38) C.P. 31, Parnaíba, PI. - V. by letter.
- 39) Rua Major Eustaquio 13, Uberaba, MG. - L.P.: Dir. Gen.: G. Jardim.
- 40) Boa Vista, RB.
- 41) C.P. 125, Teresina, PI. - L.P.: Dir. Gen.: W. S. Guimaraes. Adm.: J. L. dos Santos.
- 42) Rua Visconde do Rio Branco 247, Taubaté, SP. Te.: 302. - L.P.: Dir. Gen. & Dir. Tec.: E. A. Beringhs. Dir. Prgr.: M. F. da Silva. - D. PRGR.: N.: 08.30. Esperanto: Sun. 16.00-16.30. - ANN.: "Emissoras Brasileiras da R. Difusora Taubaté, ondas médias e curtas, São Paulo, Brasil". - V. by QSL-card. Re. in E., Sp., P. or F.
- 43) Av. Pres. Vargas 145, Belém, PA. - L.P.: Dir. Gen.: E. de Campos Proença. - V. by letter or QSL-card.
- 44) Av. Rio Branco 110, Rio de Janeiro. - L.P.: Dir.: M. F. Brito. - ANN.: "R. Jornal do Brasil, Musica e Informação".
- 45) Rua Benjamin Constant, Rio Branco, Acre.
- 46) C.P. 143, Pocos de Caldas, MG. - L.P.: Dir. Gen.: J. R. Rocha. - V. by letter or QSL-card.
- 47) Av. Eduardo Ribeiro 566, Manaus, AM. - L.P.: Dir. Gen.: E. Barauna.
- 48) Av. 7 de Setembro 311, Salvador. Cable: Radicultura. Te.: 8880. - L.P.: Pres.: J. J. de Carvalho. Mgr.: G. Mascarenhas. - V. by letter or QSL-card.
- 49) Av. Pres. Vargas 417-A, Rio de Janeiro. - D. PRGR.: m.w.: 24 h. - ANN.: "Ouvem a R. Relógio Federal do Rio de Janeiro, a emissora líder a hora exata" or "R. Relógio Federal, proporcionando, minuto a minuto, a hora certa do Observatório Nacional".
- 50) C.P. 22, Araraquara, SP. Te.: 2828. - L.P.: Dir. Gen.: R. Lupo. Dir. Tec.: J. A. Quirino dos Santos. - D. PRGR.: N.: 12.00. - ANN.: "Emissoras da R. Cultura Araraquara PRD4, ZYR60, PRD4-FM". - V. by letter. Re. in P., E., Sp. Prgr.schedule free on request.
- 51) Av. Candido Mendes, Macapá, Amapá. - L.P.: Dir. Gen.: M. Q. da Silva. Dir. Tec.: I. A. Veras. - D. PRGR.: N. every h. on the h. and W. 21.30. - V. by letter. - F. PL.: 10 kW s.w. in 1963.
- 52) Penedo, Alagoas.
- 53) Praça João Pessoa 9, Juiz de Fora, MG. - L.P.: Dir. Gen.: Dr. S. Vieira Mendes. Dir. Tec.: Dr. G. Falcí Mendes, L. da Cunha Lopes. - D. PRGR.: N.: 12.00, 15.10, 20.00, 22.30, 00.30. - ANN.: "Emissoras Brasileiras de ondas curtas e médias da R. Industrial de Juiz de Fora, Estado de Minas Gerais, uma das Componentes da Organização Sergio Mendes, a serviço do Brasil". - V. by letter. Re. in P., F., E., I., G. or R. Prgr.schedule on request.
- 54) Av. Rio Branco 325, Natal, RGN. Te.: 1205. - L.P.: Dir. Gen.: L. M. Alves. Dir. Tec.: H. F. Segundo. - D. PRGR.: m.w.: 08.00-03.00. "A Voz de Natal" (Typical Brazilian music) D. 02.30-03.00 (ann. in E., E., F.). - V. by letter. Re. in E., F. or Sp.
- 55) Esc. Estiva 4º and., Vitória, ES. - L.P.: Dir.: A. S. Gonvea. - ANN.: "Estações de ondas médias e curtas R. Capixaba, Vitória, Brasil".
- 56) Caxias, MA.
- 57) Praça da Bandeira, Bragança, PA.
- 58) C.P. 79, Capas, ER. Te.: 1582. - L.P.: Dir. Gen.: M. F. Sampaio. Dir. Tec.: W. Lobo. - D. PRGR.: N.: 10.30, 13.00, 14.30, 16.00, 18.00, 22.00, 01.30. - V. by letter.
- 59) Rua Osvaldo Cruz 28, São Luiz, MA. - L.P.: Dir. Gen.: J. M. Teixeira.
- 60) Av. Rio Branco 277, 6º andar, Rio de Janeiro. - L.P.: Dir. Gen.: A. de Lima Santana. Dir. Tec.: G. Mannes. - D. PRGR.: English: Sun. 00.00-03.30. Spanish: Sat. 23.00-01.00. - ANN.: "R. Copacabana, a emissora do Otimismo".
- 61) C.P. 126, Cuiabá, MT. - L.P.: Dir.: J. Oliveira. - D. PRGR.: Japanese: 23.30.
- 62) C.P. 330, Goiânia, GO. - L.P.: Dir.: O. Barbosa. - V. by QSL-card or letter.
- 63) Aquidauana, MT.
- 64) Av. Anhanguera 92, Goiânia, GO. - L.P.: Dir. Gen.: J. Camara. Dir. Tec.: S. B. da Franca. - ANN.: "R. Anhanguera, a emissora líder do povo Goiano". - V. by letter.
- 65) C.P. 809, Vitória, ES. - L.P.: Dir. of Broadcast: H. Blachman. Dir. Tec.: R. Conde.
- 66) Ao. Rio Branco 277, Rio de Janeiro.
- 67) Rua México 111, Rio de Janeiro. - ANN.: "Esta é a R. Quitandinha, Petropolis, Brasil, operando na freq. de 5045 kc/s, em caracter de ajuste de sintonia. Escrevam para a R. Quitandinha... a Rua México 111, Rio de Janeiro, informando como esta recebendo esta transmissão. (The sound is relayed from PC8 R. Guanabara or ZY234 R. Rio de Janeiro). - V. by letter.

Brazil

- 68) C.P. 700, Vitória, ES. - L.P.: Dir.: J. Cavalcanti. - ANN.: "Ouvem a R. Vitória, da capital do Espírito Santo, Brasil". - V. by letter.
- 69) Av. Cásper Líbero 88, 2º andar, São Paulo. Te.: 355151. - L.P.: Dir. Gen.: J. F. Ferreira Jorge. Dir. of Broadcast: H. Carvalho de Castro. - D. PRGR.: N.: 15.00, 19.00, 01.30, also every h. on the h. - ANN.: "PRA6, R. Gazeta, a Emissora de Elite". - V. by letter. Re. in P., E., F., Sp. Prgr. schedule on request.
- 70) Rua Caldas Jrs 219, Porto Alegre, RGS. - L.P.: Dir. Gen.: A. Pasqualini. Dir. Tec.: H. C. Simon. Dir. For. Relations: Dr. F. A. Gomes. - ANN.: "Emissoras brasileiras da R. Guabá, Porto Alegre, Brasil, em ondas médias e curtas".
- 71) C.P. 45, Florianópolis, SC. - L.P.: Dir.: C. Bonetti. - V. by QSL-card.
- 72) C.P. 1027, Belo Horizonte, MG. Te.: 21589. - L.P.: Dir. Gen.: M. A. Andrade. Dir. Tec.: A. Praça da Piedade. - D. PRGR.: N.: 11.00, 16.00, 22.00, 01.00. - ANN.: "Aqui Falam PR13, PRK5 e PRK9, Emissoras de ondas curtas e médias da R. Inconfidência, Belo Horizonte, Minas Gerais, Brasil". - INT.-SIG.: Gong. - V. by QSL-card or letter. Re. in E.
- 73) Av. Cruz Cabuga 394, Recife, PE. - ANN.: "R. Clube de Pernambuco, a pioneira". - V. by QSL-card.
- 74) C.P. 8087, São Paulo. Cable: Santalina. Te.: 334175. - L.P.: Dir.: M. Leuzzi Jr. Dir. Tec.: O. Pathiuky. - D. PRGR.: m.w.: 24 h. Japanese: 08.30-10.00. - V. by QSL-card.
- 75) Rua Ireneu Marinho 35, Rio de Janeiro. - L.P.: Dir. Gen.: R. Marinho. Dir. Tec.: L. A. de Medeiros. - D. PRGR.: N.: Every h. on the h. to 03.00. - ANN.: "PRE3, R. Globo, Rio de Janeiro, Brasil". - V. by QSL-card. Re. in P., Sp., E., F.
- 76) C.P. 448, Curitiba, PR. L.P.: Dir. Gen. - V. by letter.
- 77) Rua Riachuelo 295, São Paulo (PRH7/PRB21/PRB23), Rua Quintino Bocaiuva 22, São Paulo (PRE9/PRB22/PRB24). - D. PRGR.: 1000 kc/s 24 h. Japanese: 09.00-09.30. - ANN.: "R. Record, São Paulo, Brasil".
- 78) Ministério da Agricultura, Largo da Misericórdia, 4º andar, Rio de Janeiro. - L.P.: Dir.: J. Anastácio Vieira. - ANN.: "R. Rural, Emissora do Agricultor do Ministério da Agricultura, Rio de Janeiro, Brasil". - V. by QSL-card. Re. in P., Sp., E., F., Sw.
- 79) C.P. 442, Brasília, D.F.
- 80) Rua Marquez do Recife, PE. - L.P.: Dir. Gen.: Dr. F. Pessoa de Queiroz. Dir. Tec.: Dr. P. Pessoa de Queiroz. - D. PRGR.: m.w.: 07.55-04.00. English: "Brazil Calling" D. 01.05-01.30 on 9565 kc/s. - ANN.: P.: "R. Jornal do Comércio, Recife, Pernambuco, ondas médias e curtas" or "Emissoras da R. Jornal do Comércio, Pernambuco, a voz mais potente do Brasil". E.: "Pernambuco speaking to the world. This is Brazil calling". - V. by QSL-card.
- 81) C.P. 252 & 4142, São Paulo. - L.P.: Pres.: E. Monteiro. Dir. Gen.: A. Oliveira. Dir. Tec.: J. Tavares Couto. - Te.: 34-4181. - D. PRGR.: Japanese: 10.00-11.00, 15.00-16.00. - V. by QSL-card or letter.
- 82) C.P. 222, Fortaleza. - L.P.: Dir. Gen.: M. E. Pinheiro Campos. - V. by letter.
- 83) Av. Venezuela 43, 2º andar, Rio de Janeiro.
- 84) Rua Sebastião Pereira 218, São Paulo.
- 85) C.P. 1164, Porto Alegre. Cable: Pioneira. - L.P.: Dir.: M. S. Sobrinho. - V. by QSL-card.
- 86) Praça Maua 7, 19-22º andar, Rio de Janeiro, Te.: 438850. - L.P.: Dir. Gen.: H. Domingues. Dir.: M. Arêas. Dir. Tec.: J. Nobrega. - D. PRGR.: m.w.: 24 h. - ANN.: "Ouvem R. Nacional, Rio de Janeiro, Brasil, por suas emissoras de ondas curtas, médias e frequência modulada". - INT.-SIG.: First movement of the Brazilian musical poem "Luar do Sertão". - V. by QSL-card.
- 87) Rua 7 de Abril 230, São Paulo - L.P.: Dir. Gen. Emonteiro - D. PRGR.: m.w.: 09.00-05.00. Japanese: 09.00-11.00, 14.00-16.00, 21.30-22.00, 23.00-01.00 on 1300/6165 kc/s (these prgr.'s produced in cooperation with JOOR, Osaka, Japan). - ANN.: "PRE4, R. Cultura de São Paulo, transmitindo em ondas médias, curtas e frequência modulada".
- 88) Rua Goiás 36, Belo Horizonte, MG. - L.P.: Dir. Gen.: F. Chateaubriand.
- 89) Rua Paula Souza 181, São Paulo. Te.: 22-1132. - L.P.: Pres.: J. Jorge Saad. Dir. Tec.: L. Aurani. - D. PRGR.: m.w.: 24 h. - ANN.: "R. Bandeirantes de São Paulo, transmitindo simultaneamente pelas suas estações: PRH9, ondas médias 840 kc/s, ZYR77, ondas curtas 6185 kc/s, ZYR78, ondas curtas 11925 kc/s - a mais popular Emissora Paulista". - INT.-SIG.: Vibraphone and organ. - V. by QSL-card or letter.
- 90) Rua Riachuelo 48, Rio de Janeiro. Te.: 52-8021. - L.P.: Pres.: R. Bernardo. Dir. Gen.: C. B. Carneiro da Cunha. Dir. Tec.: O. Leonardo. - D. PRGR.: m.w.: 10.00-04.00. s.w.: Mo.-Fri.: 14.30-16.00, 19.00-03.00. Sat. 14.30-03.00. Sun. 11.00-03.00. N.: Every h. on the h. - ANN.: "Emissora Continental, estação-chave da organização Rubens Bernardo, com percento esportiva e informativa". - V. by letter. Re. in P., Sp., E., F.
- 91) Brasília, D.F. (Go., operated by the Ministry of Justice and Inter-

- rior). - L.P.: Dir. Broadcast: J. L. Padilha. - D. PRGR.: W. 22.30-23.00 "A Voz do Brasil" relayed by all st.'s. - V. by letter.
- 92) Rua Relação, Rio de Janeiro. - L.P.: Dir. Gen.: A. Cursati. - D. PRGR.: Special prgr.'s to foreign countries by E. Tavares Filho, R. de Lima Corrêa Filho and C. Saito 00.00-01.00 (Brazilian popular music & information about Brazil) is announced in P. F. E. G. Sp. - ANN.: "Esta falando a PRN9, R. Difusora da Departamento Estadual de Segurança Pública, A Voz da Polícia Estadual, na frequência de 9295 kc/s, para o Brasil, Américas e o Mundo". - V. by QSL-card and streamer.
- 93) Av. Erasmo Braga 118, Rio de Janeiro. - L.P.: Dir. Gen.: A. de Almeida Queiroz. - D. PRGR.: m.w.: 10.00-03.00. - ANN.: "R. Roquette Pinto, Emissora da Prefeitura do Distrito Federal".
- 94) C. P. 471, Curitiba, PR. Te.: 41393. - L.P.: Dir. Gen.: Dr. N. Chede. Dir. Tec.: O. Leining, E. Zambonni. Dir. Public Rel.: A. Vasconcellos. - D. PRGR.: m.w.: 09.00-03.00. Japanese: 10.50-12.30. German: Sat. 23.00-23.25. ZYS47 R. Curitiba: 09.00-02.00. - ANN.: "Emissoras de ondas curtas, médias e frequência modulada da R. Emissora Paranaense, Curitiba, Parana, Brasil". "ZYS47, R. Curitiba, 640 kc/s". - V. by letter and QSL-card. Re. in Sp, P, I, E, F, G
- 95) Rua Mayrink Veiga 15, Rio de Janeiro. Te.: 235991. - L.P.: Dir. Gen.: W. G. Morrius. Dir. Tec.: E. B. Lacerda. - D. PRGR.: m.w.: 24 h. - ANN.: "Transmite a R. Mayrink Veiga do Rio de Janeiro, PRA9 onda média, ZYZZ27 e ZYZZ28 ondas curtas". - V. by QSL-card. Re. in P, E, F, Sp.
- 96) Rua das Palmeiras 322, São Paulo. - L.P.: Dir. Tec.: G. Rabenhorst. - D. PRGR.: Japanese: 09.00-09.45.
- 97) Rua Wenceslau Braz 78, São Paulo. - L.P.: Pres.: D. A. Macedo. Dir. Adm.: Dr. A. Zioni. - D. PRGR.: Japanese: 09.30-10.00, 19.00-20.00, 22.00-22.30.
- 98) C. P. 331, Florianópolis, SC. - L.P.: Dir. Gen.: Dr. P. K. Bornhausen. - ANN.: "Emissoras brasileiras de onda média e curta da R. Diário da Manhã, de Florianópolis, Santa Catarina", or "Estações de Florianópolis da R. Diário da Manhã". - V. by QSL-card.
- 99) Av. Epaminondas 555, Manaus, AM. - L.P.: Dir. Gen.: C. Hamu. - D. PRGR.: m.w.: 09.30-04.30. N. 10.00 and every h. from 11.30 to 23.30, 01.30, 02.30. - ANN.: "ZYB20 e ZYB22, Emissoras da R. Rio Mar de Manaus, Brasil". - V. by letter. Re. in P, E, Sp.
- 100) Ministério do Trabalho, Rio de Janeiro. - ANN.: "Escutam a R. Maua, a emissora do trabalhador".
- 101) C. P. 908, Porto Alegre, RGS. - L.P.: Dir. Gen.: N. D. de Oliveira. Dir. Tec.: R. dos Santos. - ANN.: "R. Farroupilha, Porto Alegre, Brasil". - V. by letter. Re. in P, E, Sp. Prgr. schedule on request.
- 102) Rua Dois 5, Goiânia, GO. - L.P.: Dir. Gen.: Dr. F. Braga Sobrinho. Dir. Tec.: T. Rotoli. - D. PRGR.: N.: 10.15, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 02.00. - ANN.: "Sintonizam R. Clube de Goiânia - Rede Nacional de Emissoras Associadas, Goiás falando para o Brasil". - V. by letter.
- 103) Rua Portugal 6, 2º andar, Salvador, BA.
- 104) Praça da República 141-A, Rio de Janeiro. (Owned & operated by The Federal Government, Ministry of Education). - L.P.: Dir. Gen.: J. Mozart de Araújo. Dir. Tec.: J. Labre Jr. - D. PRGR.: L.L.: Mo., Wed., Fri.: Portuguese 10.00-10.30, English 10.30-11.00, Spanish 11.00-11.30, French 11.30-12.00. Mo., Thurs.: German 21.00-21.25. - V. by letter.
- 105) C. P. 1053, Curitiba, PR. - L.P.: Dir.: H. Lavalle. Dir. Tec.: J. W. Riecks. - D. PRGR.: m.w.: 09.00-04.00.
- 106) Av. Venezuela 43, Rio de Janeiro. - L.P.: Dir. Gen.: Dr. J. de Medeiros Calmon. - ANN.: "R. Tupi do Rio de Janeiro, o Cacique do Ar". - V. by letter.
- 107) C. P. 18, Ribeirão Preto, SP. - L.P.: Dir. Gen.: J. da Silva Bueno. - ANN.: "PRAT, R. Clube de Ribeirão Preto, onda média de 730 kc/s, e ZYR206, onda curta de 15415 kc/s".
- 108) R.U.S.D. - I.T.A., São José dos Campos, S.P. Te.: 450. - L.P.: Dir. Gen.: A. Tyla. Dir. Tec.: P. M. Marraccini. - D. PRGR.: N.: 23.25, 23.55, 00.25, 00.55. English: Mo. 24.00. "A View of Brazil". - ANN.: "Ondas Curtas, 16 metros, ZYR232, RUSD - R. Universidade Santos Dumont, a primeira emissora genuinamente universitária do Brasil". - V. by letter. - F.PL.: FM 1 kW.

Medium Waves:

- 109) R. Eldorado, Av. Pres. Vargas 417-A, 12º andar, Rio de Janeiro. Te.: 231726. - L.P.: Dir. Gen.: Dr. J. M. Homem de Montes. - D. PRGR.: 10.00-04.00.
- 110) R. Soc. Passos, Passos, MG.
- 111) Soc. R. Atlântica, C. P. 7, Santos, SP.
- 112) R. Cataguazes, Cataguazes, MG.
- 113) R. Londrina, C. P. 444, Londrina, PR. -
- 114) R. Dif. Ouro Verde, Rua Monsenhor Celso 211, Curitiba, PR.
- 115) R. Assunção Cearense, Fortaleza, CE.
- 116) R. Dif. de Cuiabá, Mato Grosso.
- 117) R. Dif. Triângulo, Uberaba, MG.
- 118) R. Dif. de Cambará, C. P. 78, Cambará, PR.
- 119) R. Dif. de Sergipe, C. P. 6, Aracaju, SE.
- 120) R. Itatiaia, Av. Amazonas 749, Belo Horizonte, MG. - D. PRGR.: 24 h.

- 121) R. Itatiaia, Nova Lima, MG.
 122) R. Santamarriense, Rua Venancio Aires, Santa Maria, RGS.
 123) R. Mirador, C.P. 61, Rio do Sul, RGS. - D.PRGR.: 10.30-01.30.
 124) R. A Voz da Araraquense, Araraquara, SP.
 125) R. Mantiqueira, C.P. 62, Cruzeiro, SP.
 126) R. Cabugi, Av. Rio Branco 729, Natal, RGN. - D.PRGR.: 08.55-02.00.
 127) R. Dif. Portoalegrense, Porto Alegre, RGS.
 128) R. Cultura, C.P. 81, Aracaju, SE. - D.PRGR.: 09.00-02.30.
 129) R. Soc. Norte de Minas, C.P. 56, Montes Claros, MG.
 130) R. Dif. de Limoeiro, C.P. 11, Limoeiro, PR. - D.PRGR.: 09.00-01.35.
 131) R. Dif. Ponta Grossa, Av. Vicente Machado 521, Ponta Grossa, PR. - D.PRGR.: 09.00-03.00.
 132) Soc. R. Cacique, Santos, SP.
 133) R. Mineira, Rua Goiás, Belo Horizonte, MG.
 135) R. Progresso di Ijuí, C.P. 73, Ijuí, RGS. - D.PRGR.: 09.00-03.00.
 136) R. Cl. de Lages, C.P. 60, Lages, SC. - D.PRGR.: 09.00-03.00.
 137) R. Dif. de Minas Gerais, Juiz de Fora, MG.
 138) Soc. R. Tubá, Tubarão, SC.
 139) R. Hora Certa Santo Amaro, Praça da Liberdade 71, São Paulo. - D.PRGR.: 09.00-03.00.
 140) R. Marumbi, C.P. 934, Curitiba, PR. - D.PRGR.: 08.00-03.00.
 141) R. Imperial, C.P. 5992, Petrópolis, Rio de Janeiro.
 142) R. Dif. Paraisense, S. Seb. do Paraíso, MG.
 143) R. Universidade de Recife, Recife, PE.
 144) R. Excelsior da Bahia, Rua Guedes de Brito 14-A, Salvador, BA. - D.PRGR.: 10.00-03.00.
 145) R. Rural de Concordia, Edif. Alvorada, Concordia, SC. - D.PRGR.: 09.00-01.00.
 146) R. Mundial, Av. Rio Branco 181, 3º andar, Rio de Janeiro. - D.PRGR.: 09.00-03.00 (Sun. 04.00).
 147) R. Itaí, Rua Andrades 1155, Porto Alegre, RGS. - D.PRGR.: 09.00-03.55.
 148) R. Nordeste, Rua João Pessoa 86, Natal, RGN.
 149) R. Araguari, Araguari, MG.
 150) R. Araranguá, Araranguá, SC.
 151) R. Liberdade de Sergipe, Aracaju, SE.
 152) R. Cultura de São Vicente, São Vicente, SP.
 153) R. Dif. de Alagoas, Maceio, Alagoas.
 154) Emis. Reunidas R. Cultura, Passo Fundo, RGS.
 155) R. Educ. do Nordeste, Sobral, CE. - D.PRGR.: 09.00-01.30.
 156) R. Brejui, Rua Pres. João Pessoa 26, Currais Novos, RGN. - D.PRGR.: 12.00-20.00.
 157) R. Imembui, Rua Venancio Aires 1980, Santa Maria, RGS. - D.PRGR.: 09.00-03.00.
 158) R. Soc. de Juiz de Fora, Av. Rio Branco 1906, Juiz de Fora, MG.
 159) R. Campos Gerais, Curitiba, PR.
 160) R. Rio Preto, José do Rio Preto.
 161) R. Tupá, São Paulo.
 162) Soc. R. Emis. Metropolitana, Rua Richuelo 48, Rio de Janeiro. - D.PRGR.: 09.00-03.00 (belongs to 90).
 163) R. Cl. de Sorocaba, C.P. 1, Sorocaba, SP.
 164) R. Cultura Peira de Santana, Peira de Santana, BA.
 165) R. Minas, Av. Afonso Pena 867, 14º andar, Belo Horizonte, MG.
 166) R. Cl. de Patos, Patos de Minas, MG.
 167) R. Teófilo Otoni, Teófilo Otoni, MG.
 168) R. Soc. de Friburgo, Praça Getúlio Vargas 74, Nova Friburgo, ER. - D.PRGR.: 11.00-16.00, 18.00-01.00.
 169) R. Universidade do Rio Grande do Sul, Porto Alegre, RGS.
 170) R. Colon, Joinville, SC.
 171) R. Cl. de Conquista, Vitória da Conquista, BA.
 172) R. Educacao Rural, Praça Pio X 335, Natal, RGN. - D.PRGR.: 08.45-02.00.
 173) R. Emis. do Nordeste, Flores da Cunha, RGS.
 174) R. Anita Garibaldi, Rua João Pinto 32, Florianópolis, SC.
 175) R. Tapajós, Av. João Pessoa 40, Curitiba, PR. - D.PRGR.: 09.00-03.00.
 176) R. Belo Horizonte, Belo Horizonte, MG.
 177) Mossoró R. Soc., Praça Rafael Fernandes 8, Mossoró, RGN.
 178) R. Cultura de Gravataí, Rua Coronel Vicente 456, Porto Alegre.
 179) Soc. R. Dif. Vale do Itaitai, Rua 15 de Novembro 343, 2º andar, Blumenau, SC. - D.PRGR.: 11.00-03.00.
 180) R. Relógio Musical, Rua Matias de Albuquerque 260, Recife, PE. - D.PRGR.: Gives correct time every 3rd min. - V. by letter.
 181) R. Cometa, Av. do Estado 3163, São Paulo - L.P.: Dir. Gen.: B. Linardi. Dir. Tec.: J. Magassy. - D.PRGR.: Spanish: 22.00-22.30. Italian: 15.00-15.30. - ANN.: "R. Cometa, a emissora que faz amigos, ZYR217 ondas medias e frecuencia modulada, São Paulo, Brasil". - V. by QSL-card. Re. in P, E or Sp. - F.P.L.: sw-tx.
 182) R. Pres. Wenceslau, Av. Newton Prado, Pres. Prudente, SP. - D.PRGR.: 09.00-02.00.
 183) R. Cariri, Campina Grande, PB.
 184) R. Dif. de Joinville, Rua Pedro Lobo 219, Joinville, SC. - D.PRGR.: 09.00-03.00.
 185) R. Educad de Campinas, Rua Barreto Leme 931, Campino. - D.PRGR.: 24 h.
 186) R. Dif. de Mossoró, Mossoró, RGN.
 187) R. Princesa de Jacui, Candelária, RGS.
 188) Prefeitura Municipal de Passo Pundo, Passo Pundo, RGS.
 189) Cachoeiro de Itapemirim, Chacoeiro de Itapemirim, ES.
 190) R. Soc. Ubacense, Ubá, MG.
 191) R. Cultura, Joinville, SC.
 192) R. Emis. Guarapuava, Guarapuava, PR.
 193) R. Cl. Herts, Franca, SP.
 194) R. Emis. Riograndense, Pelotas, RGS.
 195) R. Cl. Pontagrossense, Ponta Grossa, PR.
 196) R. Chavantes, Praça da Liberdade 15, Ipameri, GO. - D.PRGR.: 10.00-01.00.
 197) R. São Paulo, Av. Angélica 430, São Paulo.
 198) R. Cultura do Piauí, Teresina, Piauí.
 199) R. Cultura de Maringa, C.P. 76, Maringa, PR.
 200) R. Carriós, Rua Afonso Pena 273, Conselheiro Lafaiete, MG. - D.PRGR.: 10.30-02.00.
 201) R. Cl. Metropole, Prés. Roosevelt 1406, Porto Alegre, RGS. - D.PRGR.: 24 h.
 202) R. Cultura de Cuiaba, Cuiaba, MT.
 203) R. Dirceu de Marília, C.P. 730, Marília, SP. - D.PRGR.: 10.00-03.00.
 204) R. Cultura de Pelotas, Pelotas, RGS.
 205) R. Herval do Oeste, Herval D'Oeste, SC.
 206) R. Diamantiense, Diamantina, MG.
 207) R. Itajubá, Praça Adolfo Olinio 19, Itajubá, MG.
 208) R. Cl. de Blumenau, Blumenau, SC.
 209) R. Cultura de Monte Alto, Monte Alto, SP.
 210) R. Arapuan, João Pessoa, Paraíba.
 211) R. Soc. Oeste Catarinense, Chapecó, SC.
 212) R. Guanabara, Av. 13 de Maio, Rio de Janeiro. - D.PRGR.: 10.00-03.00.
 213) R. Uirapuru de Fortaleza, Fortaleza, SC. - F.P.L.: sw-tx.
 214) R. Continental, Recife, PE. - D.PRGR.: 08.30-03.30. - ANN.: "R. Continental do Recife". - V. by QSL-card and letter.
 215) R. Caxias do Sul, Caxias, RGS. - D.PRGR.: 09.00-03.25.
 216) R. Tinguí, Pirajuara, PR.
 217) R. Sul Fluminense, Av. Joaquim Leite 465, Parra Mansa, ER. - D.PRGR.: 10.00-03.00.
 218) R. América, Rua do Consolidação 116, São Paulo, SP.
 219) R. Verdes Mares, Fortaleza, CE. - D.PRGR.: 09.00-04.00. - V. by letter.
 220) R. Imbiará de Araxá, Araxá, MG.
 221) R. Colonial, Panambi, RGS.
 222) R. Vera Cruz, Rua Buenos Aires 168, Rio de Janeiro. - D.PRGR.: 10.00-03.00. - V. by letter.
 223) R. Cl. de Tupa, C.P. 39, Tupa, SP. - D.PRGR.: 09.00-02.00.
 224) R. Cultura de Campos Novos, C.P. 3, Campos Novos, SC. - D.PRGR.: 10.00-20.00, 20.55-02.00.
 225) R. Imprensa, Campo Grande, MT.
 226) R. Cl. de Santos, Santos, SP.
 227) R. Caturité, Campina Grande, PB.
 228) R. Campos Dif., C.P. 79 Campos, ER.
 229) R. Coroadó, C.P. 33, Curitiba, SC. - D.PRGR.: 11.00-01.00.
 230) R. Dif. Mearim, Caxias, MA.
 231) R. Cl. de Rio Claro, Rio Claro, SP.
 232) R. Central do Paraná, C.P. 590, Ponta Grossa, PR. - D.PRGR.: 09.30-02.00.
 233) R. Emis. Convenção de Itui, Itui, SP.
 234) R. Soc. Muriaé, Muriaé, MG.
 235) R. Espinhara de Patos, Patos, PB.
 236) R. Progresso, Novo Hamburgo, RGS.
 237) R. Ararape, Rua Nelson Alencar 90, Crato, Ceara.
 238) R. Dif. Mangogrossense, Av. 13 de Junho 899, Corumbá, MG.
 239) R. Soc. Canguçuense, Canguçu, RGS.
 240) R. Piracununga, 3, Piracununga, São Paulo.
 241) R. Dif. Itajai, C.P. 122, Itajai, SC. - D.PRGR.: 09.00-03.00.
 242) R. Novo Horizonte, Novo Horizonte, SP.
 243) R. Nordeste, Nova Cruz, RGN.
 244) R. Educadora, Santo Amaro, BA.
 245) R. Emis. de Volta Redonda, Bairro do Laranjal, Volta Redonda, RJ. - D.PRGR.: 10.30-02.30.
 246) Soc. Emis. Minuaro, Rio Grande, RGS.
 247) R. Jornal de Maringa, Maringa, PR.
 248) R. Chavantes, Ipameri, GO.
 249) R. Dif. de Amparo, Amparo, SP.

★ CHILE ★

L.T.: GMT + 4 h. - Pr.L.: Spanish. - Po.: 7.479.000. - Rvrs.: 700.000. - E.C.: 220/380 V., A.C., 50 c/s.

ASOCIACION DE RADIODIFUSORES DE CHILE

ADDR.: Casilla 10476, Santiago de Chile. Cable: Archi. Te.: 34.509. - L.P.: Pres.: E. Sánchez Matte. Mgr.: J. Menadier Carrasco. STATIONS: All st.'s are comm. exc. 8), 53), 72) (Cultural). - S.W.:

Chile

Call letters CE are used for all zones. - M.W.: Call letters CA, CB, CC and CD indicate: A=No. Zone, B=Central Zone, C=So. Zone and D=Antarctic Zone.

The figures indicate the frequency in kc/s minus one cipher, f. inst. CB82=Central Zone 820 kc/s - Abbrev.: Soc.=Sociedad, Nac.= Nacional.

Short Waves: *) inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) CE601	6010	49.92	1.0	1270	R. Norte: 11.00-04.00
2) CE602	6020	49.83	1	1080	Diego Portales: 11.00-04.00
3) CE604	6040	49.67	5.0	900	R. Libertad: 11.00-04.00
4) CE607	6070	49.42	5	1060	Soc. Nac. de Minería: 11.30-04.30
5) CE610	6100	49.18	0.25	1320	R. Calama: 11.00-04.00
6) CE611	6110	49.10	5	570	Soc. Nac. de Agricultura: 11.30-05.00
7) CE613	6130	48.94	1.0	1260	R. El Morro
8) CE613	6135	48.90	1	890	R. Universidad de Concepción: 12.00-04.00
9) CE615	6150	48.78	5	730	R. La Coop. Vitalicia: 11.00-04.30
10) CE619	6190	48.47	5	1140	Corp. Chilena Broadc.: 11.25-04.00
10) CE950	9500	31.58	5.0	1140	Corp. Chilena Broadc.
11) CE960	9600	31.25	10.0	1300	R. Pres. Balmaceda: 10.45-04.30
12) CE965	9650	31.09	1	1010	R. Yungay: 11.30-06.30
9) CE970	9700	30.93	10	760	R. La Cooperativa Vitalicia: 11.00-04.30
13) CE1174	11740	25.55	5.0	930	R. Nuevo Mundo: 11.00-05.00
6) CE1180	*11800	25.42	1	570	Soc. Nac. de Agricultura:
14) CE1185	*11850	25.32	2.5	1380	R. Cruz del Sur:
9) CE1190	11900	25.21	5	730	La Coop. Vitalicia: 11.00-04.00
4) CE1196	11960	25.08	2.5	1060	Soc. Nac. de Minería: 11.30-04.30
4) CE1511	*15110	19.85	5.0	1060	Soc. Nac. de Minería
10) CE1515	15150	19.80	5	1140	Corp. Chilena Broadc.: 11.25-04.00

Medium Waves: °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
6) CB57	° 570	15	38) CA96	960	0.3	5) CA132	° 1320	1
15) CC59	590	1	39) CC960	960		59) CB132	1320	1
16) CB62	620	2	40) CD96	960	3.0	60) CD132	1320	1
17) CA63	630	0.25	41) CB97	970	1	61) CC133	1330	0.15
18) CB63	630	1	12) CB101	° 1010	1	62) CB134	1340	1
19) CD63	630	1	42) CD101	1010	1	63) CD134	1340	0.15
20) CA64	640	0.5	43) CB103	1030	1	64) CA135	1350	0.25
21) CB64	640	1	44) CD103	1030	10	65) CC135	1350	0.25
22) CC64	640	1	4) CB106	° 1060	100	66) CD136	1360	1
23) CB66	660	12	45) CA108	1080	1	67) CB136	1360	0.5
4) CB68	680	1	2) CC108	° 1080	2	68) CD137	1370	1
24) CC68	680	0.5	46) CA109	1090	0.25	14) CB138	° 1380	2.5
25) CD69	690	1.2	47) CC109	1090	1	69) CA141	1410	
26) CA70	700	0.25	48) CB111	1110	1	70) CB141	1410	1
27) CB70	700	1	49) CC111	1110	0.1	71) CC141	1410	1
29) CB73	730	10	50) CD111	1110	1.25	72) CB143	1430	0.25
9) CB76	° 760	75	10) CB114	° 1140	50	73) CC143	1430	0.1
28) CB78	780	1	51) CB116	1160	2	74) CC144	1440	1
29) CA82	820	0.5	52) CC116	1160	1.5	75) CB146	1460	0.1
30) CB82	820	1	28) CB118	1180	50	76) CD146	1460	0.25
31) CD82	820	1	53) CB120	1200	10	77) CA147	1470	0.1
32) CB84	840	1	54) CA121	1210	0.25	72) CB147	1470	0.25
33) CC84	840	0.8	6) CD121	1210	10	78) CC147	1470	0.25
34) CD84	840	1	55) CB124	1250	0.25	79) CC148	1480	0.25
35) CB89	890	1	56) CC125	1250	1	80) CB150	1500	
36) CD89	890	1	7) CA126	° 1260	10	81) CA152	1520	0.5
8) CC89	° 890	1	57) CB126	1260	1	82) CC152	1520	0.25
3) CA90	° 900	1	1) CA127	° 1270	1	83) CB153	1530	0.25
6) CB90	900	1	58) CC127	1270	0.25	84) CB154	1540	0.25
37) CC90	900	0.1	58a) CD127	1270	1	85) CB156	1560	1
13) CB93	° 930	20	11) CB120	° 1300	1	86) CC157	1570	

NOTE: CB76 and CB73 (9) belong to Cia. Chilena de Comunicaciones S.A., which also owns the following st.'s forming the chain "Emisoras La Voz de Chile, Radios La Cooperativa Vitalicia": 1), 15), 18), 19), 36), 42), 44). - St.'s CB78 and CB118 (28) belong to 2).

Short Waves:

- 1) Casilla 556, Antofagasta.
- 2) Casilla 21D, Talca. - L.P.: Dir. Gen.: R. Tarud S. Mgr.: A. Hasbún. Dir. Tec.: P. del Campo B. - D.PRGR.: N.: every h. on the h. - ANN.: "CC108 onda larga y CE602 onda corta, R. Portales desde la ciudad de Talca, Chile". - V. by QSL-card or letter. Re. in E, Sp.
- 3) Casilla 457, Antofagasta. - L.P.: Dir.: A. Cajiao.
- 4) CA106: Casilla 2626, Santiago. Cable: Radiominería. Te.: 380631. CB68: Casilla 337, Viña del Mar. - L.P.: CB106: Dir. Gen.: E. Sanchez M. Dir. Prgr.: R. Rojas R. Dir. Tec.: R. Fuentes A. CB68: Mgr.: L. Muñoz. - D.PRGR.: N.: 11.00, 12.00, 16.45, 17.30, 01.00, 01.30,

- 02.30. - ANN.: "Santiago de Chile - R. Soc. Nac. de Minería". - INT.-SIG.: Gong. - V. by QSL-card. Re. in E or Sp.
- 5) Casilla 1, Calama. - L.P.: Dir.: P. Vergara Keller. - D.PRGR.: N.: 11.00, 12.00, 16.40, 17.30, 01.00, 02.30. - V. by QSL-card.
- 6) CB57: Teatinos 449, 9° piso, Casilla 40-D, Santiago. Te.: 63934. CB90: Casilla 90, Valparaíso. Te.: 6891. CD121: Casilla 327, Los Angeles. Te.: 517.
- L.P.: CB57: Dir.: F. Echeverría M. CB90: Mgr.: J. P. Aedo. Dir. Tec.: J. Coiro T. - D.PRGR.: CB57: German Hour: W. 23.30-24.00. Sun. 03.00-04.00, 22.00-23.30. - V. by QSL-card. - F.P.L.: One m.w., one s.w. tr., prgr.'s in three languages.
- 7) Casilla 463, Arica. - L.P.: Dir.: C. Nieto G. Dir. Prgr.: W. Gutierrez C. - V. by letter.
- 8) Casilla 2337, Concepción. Te.: 23207. - L.P.: Dir. Gen.: A. Tienken L. Dir. Tec.: O. San Martín M. - D.PRGR.: N.: 12.15, 17.15, 01.30. - ANN.: "Transmite R. Universidad de Concepción, CC89 en Onda Larga, CE613 en Onda Corta en la Banda de 49 metros y con su equipo de Frecuencia Modulada en 95.1 megaciclos, desde la Ciudad Universitaria, Concepción, Chile". - V. by QSL-card and letter. Re. in E, Sp. Prgr. sched. on request.
- 9) R. "La Voz de Chile", Radios La Cooperativa Vitalicia. CB76: Casilla 13130, Santiago. CB73: Casilla 1627, Valparaíso. Cable: Vitalradio. - FL: By adv. - AD.: 15 min. per h. - L.P.: CB76: Exec. Pres.: C. A. Vial. Asst. Mgr.: V. Tischenko. CB73: Gen. Mgr.: R. Reyes B. - D.PRGR.: N.: 11.30, 12.15, 13.00, 14.00, 15.00, 16.00, 16.45, 17.15, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00, 03.00, 03.05. - Wrp.: 11.45, 12.15, 17.15, 01.00, 02.00. - Folklore Music: 16.05, 20.30, 01.30. - ANN.: "Emisoras La Voz de Chile, Radios La Cooperativa Vitalicia". All st.'s transmit simultaneously: "Transmite La Cadena Radial "La Voz de Chile" por sus estaciones Radios La Cooperativa Vitalicia". - INT.-SIG.: Gong with central theme of "Pomp and Circumstances". - V. by QSL-card and letter.
- 10) Casilla 244V, Santiago. - L.P.: Dir.: A. Palma. - ANN.: "Transmitiendo CB114, Radio Corporación, Santiago de Chile, Quedese en el Canal CB114".
- 11) Nueva York 53, piso 7°, Santiago. - L.P.: Dir.: E. del Solar. - INT.-SIG.: Gong with notes from "Los Copihues Rojos". - V. by QSL-card.
- 12) Casilla 3041, Santiago. - L.P.: Dir.: H. Beweis. - ANN.: "CB101 y CE766 Estaciones de Radio Yungay de la Corporación de Radiodifusión Ltda., Santiago de Chile". - INT.-SIG.: First movement of the song "Donde el Azul de la Noche encuentra el Ove del Día". - V. by letter.
- 13) Casilla 9255, Santiago. Cable: R. Nuevo Mundo. Te.: 382392. - L.P.: Dir. Gen. & Gen. Mgr.: J. Raggio R. Comm. Mgr.: J. Yunis. Dir. Tec.: C. Gallardo C. - D.PRGR.: N.: 11.30, 12.30, 13.00, 14.00, 15.00, 16.00, 17.15, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 03.00. - ANN.: "Estas son Las Emisoras Nuevo Mundo de Santiago de Chile que transmiten por CB93, CE1174 estación de Onda Corta en la Banda de 25 metros y su equipo de FM en 93 punto un Megaciclos". - V. by QSL-card and letter. Re. in Sp, E.
- 14) Casilla 3126, Santiago. - L.P.: Mgr.: M. Parada.

Medium Waves:

- 15) R. Condor, Casilla 486, Concepción. - D.PRGR.: 11.00-04.00.
- 16) R. La Reina, Nueva York 25, Santiago. - L.P.: Dir.: G. Camus.
- 17) R. Esmeralda, Casilla 209, Iquique.
- 18) R. Pres. Prieto, Edwards 382, Valparaíso.
- 19) R. Sur, Casilla 60-D, Valdivia. - D.PRGR.: 11.00-04.00.
- 20) R. Norte Verde, Casilla 252, Ovalle. - L.P.: Dir.: F. Morales.
- 21) R. Andrés Bello, MacIver 142, Santiago. - L.P.: Mgr.: J. Brown.
- 22) R. El Sur, Casilla 482, Concepción. - L.P.: Dir.: J. Valenzuela.
- 23) R. Chilena, Casilla 10277, Santiago. - L.P.: Dir.: R. Vergara.
- 24) R. Lautaro, Casilla 214, Talca. - 25) R. La Frontera, Casilla 516, Temuco. - 26) R. Coya, María Elena, Antofagasta, or Casilla 13260, Santiago.
- 27) R. Santiago, Casilla 10195, Santiago. - L.P.: Dir.: R. Vergara.
- 28) CB78: R. Portales, Augustinas 1022, Santiago. - L.P.: Dir.: R. Tarud. - CB118: R. Diego Portales, Cas. 89-V, Valparaíso. - L.P.: Dir.: N. Tarud M. - 29) R. Del Salitre, Casilla 7-D, Iquique. - 30) R. Del Pacífico, Casilla 3591, Santiago. - L.P.: Dir.: R. Vivado & J. Quintero. - D.PRGR.: 24 h.
- 31) R. Concordia, Casilla 119, La Unión. - L.P.: Dir.: C. Figueroa.
- 32) R. Recreo, Casilla 596, Viña del Mar. - L.P.: Mgr.: E. Godoy Donos. Dir. Tec.: J. C. Tribuzio. - D.PRGR.: 12.00-04.00.
- 33) R. Almirante Latorre, Casilla 358, Talchahuano.
- 34) R. Sago, Casilla 35-O, Osorno. Cable: Radiosago. - FL: By adv. - L.P.: Mgr.: J. Kemp M. Dir. Tec.: A. Coronel W. - D.PRGR.: 11.30-04.00. - 35) R. Bulnes, Casilla 1555, Santiago. - L.P.: Dir.: C. Briñeño.
- 36) R. Polar, Casilla 599, Punta Arenas. - D.PRGR.: 11.30-04.00. - V. by letter. - 37) R. El Roble, Casilla 37, Parral. - 38) R. Riquelme, Casilla 92, Coquimbo. - 39) R. Condell, Yuneay 10, Curico. - L.P.: Dir.: A. Cuerra.
- 40) R. Camilo Henríquez, Casilla 28-A, Valdivia. - L.P.: Dir.: E. Mujica. - 41) R. Prat, Casilla 4042, Santiago. - L.P.: Dir.: P. Valenzuela. - 42) R. Llanquihue, Casilla 356, Puerto Montt. - D.PRGR.:

11.00-04.00. - 43) R. CB103, Casilla 4058, Valparaíso. - L.P.: Dir.: A. Sanchez.
 44) R. Cooperativa Vitalicia, Casilla 169, Temuco. - L.P.: Dir.: Nic. Kunakov. - 45) R. La Serena, Casilla 118, La Serena. - 46) R. Toco, Maria Elena 363, Tocopilla.
 47) R. Rancagua, Casilla 8-D, Rancagua. - L.P.: Dir.: J. Romero.
 48) R. Viña del Mar, Casilla 534, Viña del Mar. - L.P.: Dir.: J. Venegas.
 49) R. Centenario, Casilla 18, San Javier. - L.P.: Dir.: M. Gaete.
 50) R. Austral, Casilla 40-D, Punta Arenas. - L.P.: Dir.: V. Turina.
 51) R. José Miguel Carrera, Tonderini 115, piso 9, Santiago.
 52) R. Simon Bolivar, Cas. 318, Concepción. - L.P.: Dir.: A. Jaen.
 53) R. Universidad Tecnica del Esto, Avda. Ecuador 3467, Santiago. Te.: 92981. - L.P.: Dir. Gen.: Rector H. Aravena A. Dir. Tec.: J. Arenas K. - D.PRGR.: 17.00-04.00. N.: 17.30, 02.00. - ANN.: "CB120 R. Universidad Tecnica del Estado".
 54) R. Atacama, Casilla 48, Copiapo. - 55) R. Valparaíso, Casilla 1096, Valparaíso. - L.P.: Dir.: J. O'Shee. - 56) R. Lircay, Casilla 450, Talca. - 57) R. Nacional, Casilla 9987, Santiago. - 58) R. Nuble, Casilla 21-B, Chillan. - 58a) R. Patagonia Chilena, Coyhaique. - L.P.: Dir.: G. Lopez V. - 59) R. Portefia, Casilla 887, Valparaíso.
 60) R. Baquedano, Casilla 758, Valdivia. - L.P.: Gen. Mgr.: C. Cockbeine. - D.PRGR.: 12.00-18.30, 20.00-03.00. - V. by QSL-card.
 61) R. La Discusión, Casilla 14-D, Chillan. - L.P.: Dir.: A. Lagos.
 62) R. Cervantes, Casilla 4650, Santiago. - L.P.: L. Leiva.
 63) R. Malleco, Casilla 204, Victoria. - L.P.: Dir.: G. Servanti.
 64) R. Pampa, Edif. F.F.C.C., Of. Pedro de Valdivia, Antofagasta.
 65) R. Minerva, Casilla 339, Rancagua. - L.P.: Dir.: L. Oñate J.
 66) La Voz del Sur, Casilla 599, Punta Arenas. - D.PRGR.: 11.30-04.00. - V. by letter. - 67) R. Panamericana, Casilla 13688, Correo 15, Santiago. - L.P.: Dir.: E. Mujica. - 68) R. Pudeto, Casilla 404, Ancud. - L.P.: Dir.: R. Gomez.
 69) R. Araucania, Casilla 462, Concepción. - L.P.: Dir.: R. Ariona.
 70) R. El Loa, Cas. 439, Antofagasta. - L.P.: Dir.: J. A. Garcia A.
 71) R. Chacabuco, Casilla 252, Quillota. - L.P.: Dir.: S. Giraldo.
 72) Emisora Universitario, Casilla 110-V, Valparaíso. - L.P.: Dir. Gen.: C. Cerutti. Dir. Tec.: G. Feick. - D.PRGR.: 01.00-02.30.
 73) R. Independencia, Casilla 132, Molina. - L.P.: Dir.: R. Jara G. - D.PRGR.: 11.00-06.00. - V. by QSL-card. - 74) R. El Cobre, Casilla 21, Rancagua. - 75) R. Magallanes, Casilla 13940, Correo 15, Santiago. - L.P.: Dir.: A. Benedicto. - 76) R. Arauco, Casilla 6, Angol. - L.P.: Dir.: J. Abasolo. - 77) R. Estrella del Norte, Casilla 13, Vallenar. - L.P.: Dir.: L. Morales. - 78) R. Maule, Casilla 196, Cauquenes. - L.P.: Dir.: H. Cuadra.
 79) R. Manuel Rodriguez, Casilla 147, San Fernando.
 80) R. Sudamerica, Goycoola 0117, La Cisterna, Santiago.
 81) R. Patrio Lynch, Viver 489, Iquique. - L.P.: Dir.: L. Roldán.
 82) R. Soberania, Casilla 11-D, Linares. - L.P.: Dir.: R. Abasolo.
 83) R. Aconcagua, Casilla 100, San Felipe. - L.P.: Dir.: R. Grenz.
 84) R. Cronos, Plaza Bulnes 79, Santiago. - L.P.: Dir.: C. Pacheco.
 85) R. Sargento Aldea, Casilla 38, San Antonio. - L.P.: Dir.: R. Filipi.
 86) R. El Carbón, Casilla 66, Lota. - L.P.: Dir.: N. Mosciatti.

R. MILITAR AUSTRAL (Military)

ADDR.: Punta Arenas. - Station: CD125 1250 kc/s 240 m 0.5 kW. S.W. CE920 9200 kc/s 32.61 m 0.5 kW. - D.PRGR.: 00.00-03.30.

★ COLOMBIA ★

L.T.: GMT ± 5 h. - Pr.L.: Spanish. - Po.: 15.000.000. - Revrs.: 3.000.000. - E.C.: 150/260 V., A.C., 60 c/s.

MINISTERIO DE COMUNICACIONES, DIRECCION GENERAL DE RADIOCOMUNICACIONES

ADDR.: Bogotá. - L.P.: Dir. Gen.: H. Chaves Navia.

STATIONS: Cultural st.'s.: 1), 2), 3), 6), 86), 90), 124), 132), 155), 156), 157, 159). Other st.'s. comm.

Short Waves: Call: HJ—, * = inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) GO	3250	92.31	10	810	R. Sutatenza: 10.45-14.00, 18.45-03.10. Sun. 16.45-02.00
2) —	3290	91.90	25	570	R. Televisora Nacional: 12.10 (Sun. 14.00)-05.00
3) GJ	4755	63.10	2.5	1540	Reina de Colombia
4) EF	4765	63.95	3	1210	R. dif. Occidente: 10.45-04.35
5) FU	*4795	62.54	1	1250	La Voz del Comercio ¹
6) AU	*4805	62.42	0.4	1410	Universidad Antioquia
7) HC	4825	62.25	1	1350	R. Narino ¹ : 12.00-05.00
8) KE	4835	62.05	1	930	R. Continental ² : 13.00-04.00
9) GF	4845	61.92	1	1120	R. Bucaramanga: 11.00-04.00
10) FN	4855	61.79	1	1240	R. Neiva ¹ : 11.00-04.35
11) FA	4865	61.66	1	1330	La Voz de Pereira ¹ : 12.30-04.00
12) BG	*4875	61.54	1	1350	La Voz del Norte
13) CH	*4895	61.29	5	970	La Voz de la Victor
14) AG	4905	61.16	1	1050	Emisora Atlantico: 11.30-04.00
15) LF	4935	60.81	1	1440	Ondas de Ibaque ¹ : 11.00-04.00

Call	kc/s	m	kW	m.w.	Name and h. of tr.
16) CW	4945	60.66	1	1130	Emisora Suramerica: 11.00-05.00
2) CQ	4955	60.54	50	570	R. Televisora Nacional: 12.10 (Sun. 14.00)-05.00
17) CG	4965	60.42	2.5	1070	R. Santa Fé: 24 h.
18) CV	4985	60.18	1	560	Transmis. Independencia
19) FW	5020	59.76	1	1060	Transmis. Caldas ¹ : 11.00-05.00
20) DW	5050	59.41	1	990	La Voz de Medellin ¹ : 11.00-05.00
1) GC	5075	59.13	25	810	R. Sutatenza: 10.45-12.30, 19.45-03.10. Sun. 16.45-02.00
21) JL	5760	52.10	0.5	690	La Voz de Colombia.
22) CF	5960	50.34	1	890	La Voz de Bogotá ¹ : 11.00-05.00
23) LY	*5980	50.16	10	910	R. Sinfonia
24) FQ	5997	50.03	1	1100	La Voz del Pueblo
18) GW	5985	50.13	1	560	Transmis. Independencia
25) FG	*6010	49.92	2.5	1090	La Voz de Armenia.
26) FK	6010	49.92	10	1230	La Voz Amiga: 11.00-04.00
21) CX	6020	49.83	5	690	La Voz de Colombia: 11.00-13.00, 17.00-19.00, 23.00-04.00
27) LB	6040	49.67	10	870	La Voz del Tolima ¹ : 12.00-04.00
28) EX	6054	49.55	5	1030	R. Pacifico ¹ : 11.00-04.30
2) —	*6060	49.50	10	570	R. Televisora Nacional:
1) GT	6075	49.38	10	810	R. Sutatenza: as 5075 kc/s
29) DM	6105	49.14	1	830	R. Vision ¹ : 11.00-05.00
30) NE	6115	49.06	1	980	R. El Sol ¹ : 11.00-05.00
31) EV	6135	48.90	1	1150	La Voz del Valle: 12.00-05.00
32) EQ	6145	48.82	1	1380	La Voz de Cauca ¹ : 11.30-04.00
33) KJ	6160	48.70	10	610	Nueva Granada ¹ : 09.45-06.00
2) CT	6185	48.50	50	570	R. Televisora Nacional: 12.10 (Sun. 14.00)-05.00
34) EZ	6195	48.43	1	900	La Voz de Cali ¹ : 11.00-05.00
21) JM	7337	40.88	0.5	690	La Voz de Colombia
21) JN	10150	29.66	0.5	690	La Voz de Colombia

Medium Waves: Call: HJ—, ° = Short Waves. * = also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
18) GS	° 560	10*	19) FJ	° 1050 ¹	1*	94) NG	1270	1
2) KA	° 570	50*	59) AZ	1060 ⁵	10*	95) KZ	1270	1
2) HG	580	100*	17) CG	° 1070	10*	96) KN	1280	1
2) HF	590	20*	60) JF	1070 ²	5*	97) AR	1280	5*
2) HJ	600	100*	25) FM	° 1080 ¹⁰	10*	98) DA	1280 ¹	1*
33) KL	° 610 ¹	15*	61) DZ	1080 ³	1*	99) NB	1290	1
34) FD	630 ²	20*	62) EO	1090 ¹⁰	10*	100) EC	1300	1
35) KH	650	10	63) BC	1090 ¹⁰	10*	101) BK	1300 ²	2
36) NX	670	10	24) FQ	° 1100 ⁵	5*	102) IA	1310 ¹	1
37) AQ	680 ¹⁰	10*	64) AT	1100 ¹	1*	103) AK	1310	2.5
21) CZ	° 690	15*	65) CN	1100 ¹	1*	104) LD	1310 ¹	1
1) EU	700	10	66) NH	1100	5	105) JX	1310	1
2) HI	700	10	67) EW	1110 ¹	1*	106) NI	1320	1
38) AN	720 ¹⁰	10*	9) GE	° 1120	10*	107) JY	1320	1
39) CU	730	10*	16) CO	° 1130 ¹	1*	108) NK	1320	1
40) DK	750 ⁵	50*	68) AC	1130 ¹	1	11) FE	° 1330 ¹	5*
41) AJ	760 ¹⁰	10	69) JC	1130 ¹	1	109) AD	1340 ¹	1
42) JX	770	30	70) CL	1140 ²	2	110) GU	1340 ¹	1*
43) HB	780 ¹⁰	10*	1) GJ	1150	1	111) HM	1340	1
44) DC	790 ¹⁰	10*	71) DL	1150 ¹	1*	112) KY	1350 ¹	1*
1) CY	° 810	10*	3) EB	° 1150	1	113) DS	1350	1*
45) ED	820 ⁵	50*	72) FI	1150 ¹	1	12) BF	° 1350	1
29) DM	830 ¹⁰	10*	73) GN	1160 ¹	1	7) HA	° 1350 ¹	1
46) BI	840	10	74) CK	1160	1*	114) FH	1360 ¹	1
47) KC	850 ⁵	50*	75) BS	1160 ¹	1	115) FR	1360 ¹	1
48) EP	860 ¹⁰	10*	76) BJ	1170 ¹	1	116) KX	1370 ¹	1*
27) LA	° 870 ¹⁰	10*	77) FX	1180 ¹	1	117) EN	1370	1
49) NW	880	30	78) JE	1180 ¹	1	118) BO	1370	1*
22) CE	° 890 ¹⁰	10*	79) CD	1180	1	32) EA	° 1380 ¹	1
34) EY	° 900 ¹⁰	10*	80) GK	1180 ¹⁰	10*	119) GH	1380 ¹	1*
23) DO	° 910	25*	81) DT	1190	1*	120) AS	1390	0.75
50) AF	920 ¹⁰	10*	82) CV	1190	1*	121) NU	1390	25
8) CS	° 930 ¹⁰	10*	83) AV	1200 ¹	2	122) FO	1400	1
51) GB	940	10*	4) EL	° 1210	5	123) JA	1400 ¹	1*
2) HK	960	10*	84) BE	1210 ¹	1	124) KM	1400	0.25
13) CI	° 970	10*	85) KR	1220	1*	125) NY	1400	1
52) FN	° 970 ¹⁰	10*	26) FF	° 1230	10*	126) EI	1410 ¹	1
30) EX	° 980 ¹⁰	10*	10) FP	° 1240 ¹	1	127) BH	1410 ¹	1
20) DB	° 990 ¹⁰	10*	86) DI	1240	9*	128) FS	1410 ²	2
53) AI	1010	5*	5) FG	° 1250 ¹	5*	6) AU	° 1410	1*
54) DQ	1010 ¹	1*	87) KW	1250	1*	129) BD	1420 ¹	1
55) CC	1010 ¹⁰	10*	88) AO	1250 ¹	1*	130) LG	1430 ¹	1
28) ER	° 1030 ¹⁰	10*	89) NL	1260	1	131) EK	1430 ¹	1
56) HO	1030	1	90) NM	1260	0.5	132) KU	1430	0.25
57) CJ	1040 ¹	1*	91) NC	1260	1	133) AP	1430 ¹	1*
58) DR	1040	1*	92) FT	1270 ¹	1*	15) FL	° 1440 ¹	1
14) AH	° 1050	1	93) HS	1270	1	134) BZ	1440	1

Colombia

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
135) EG	1450	0.75	145) BP	1480	1	154) FV	1520 ³	1*
136) GM	1450 ¹	1	146) CL	1480 ¹	1	155) BA	1530	1*
137) JB	1450	1	147) JW	1480	1	3) GD	°1540	0.35
138) HZ	1450	1	148) LE	1480 ²	1	156) DN	1540	0.15
139) AL	1460 ¹	1*	149) NT	1490	1	157) CP	1550	1
140) EJ	1460 ¹	1	150) AW	1490	1	158) GA	1560 ¹	1
141) FZ	1460	1	1) EH	1500	1*	159) NR	1570	0.25
142) FC	1470	1*	151) HX	1500	1	1) GP	°1580	1
143) BK	1470 ¹	1*	152) ET	1510	1			
144) DH	1480 ²	1	153) JB	1520 ¹	1*			

¹⁾ Belongs to R. Cadena Nacional. ²⁾ Ci. Todelar. ³⁾ Primera Cadena Radial Colombiana (Caracol). ⁴⁾ R. Cadena del Norte. ⁵⁾ Circuito Radial A.B.C.

RADIO CADENA NACIONAL

ADDR.: Carrera 51-59-53, Medellín. Te.: 28-462. - L.P.: Pres. & Gen. Mgr.: W. Londoño. Comm. Mgr.: J. Alvarez Botero. Dir. Tec.: E. Ramirez.

CARACOL - PRIMERA CADENA RADIAL COLOMBIANA

ADDR.: Calle 19, 8-48, Bogotá. Cable: Caracol. Te.: 436-800. - L.P.: Pres.: F. Londoño H. Vice-Pres.: H. Restrepo A. Dir. Gen.: A. Toro M. Dir.: J. Ospina M. Techn. Directors: H. Restrepo, M. Frig G., L. Antonio R.

CIRCUITO RADIAL ABC, S.A.

ADDR.: Apt. Aéreo 1771, Apt. Nal. 206, Catagena. Cable: "Radial". Te.: 13-004. - L.P.: Mgr.: R. Fuentes L. Dir. Tec.: C. Estevez L. D.PRGR.: 10.45-05.00. N.: 12.10, 17.00, 24.00. - V. by letter.

Short Waves:

1) Escuelas Radiofónicas, Apt. Aéreo 7170, Apt. Nacional 3262, Bogotá. Cable: Radiofónicas. Te.: 420543. - L.P.: Dir. Gen.: J. J. Salcedo G. Mgr.: Dr. F. Padilla N. Dir. Tec.: L. M. Pick. - D.PRGR.: 800 kc/s; 11.45-04.00. - R. Belencito, Boyaca 1150 kc/s; 12.00-15.00, 16.45-19.00, 22.00-03.00. - N.: 12.00 (W), 23.20, 01.00 (W), 03.00 (W). - ANN.: "Por la Fe y la Cultura, bases del verdadero progreso, transmite Radio Sutatenza, del Servicio de Radiodifusión de Acción Cultural Popular, desde Sutatenza, en Boyacá, República de Colombia". - V. by QSL-card.

2) Transversal 17 No. 25-65, Bogotá. Te.: 414070. - V. by QSL-card or letter.

3) Chiquinquira.

4) Carrera 16-89, Cali. - L.P.: Mgr.: E. Rueda S. - ANN.: "Transmiten desde Cali, Sultana del Valle las emisoras R.C.O., R. Melodia, por sus emisoras 1210 kc/s onda larga, 4765 kc/s onda corta, banda internacional de los 60 metros".

5) Armenia. - 6) Carrera 43 No. 47-96, Medellín.

7) Carrera 28 Ca. 17 Esquina, Pasto. - L.P.: Dir. Gen.: M. Julian S. Dir. Tec.: C. Acosta O. - D.PRGR.: N.: 12.00, 18.00, 24.00, 02.00, 03.00. - ANN.: "Esta es R. Narino, emisora filial de R.C.N. Radio Cadena Nacional, la mas basta red de radiodifusion en Colombia". - V. by QSL-card.

8) Apt. Aéreo 53-42, Bogotá. - V. by letter.

9) Apt. Aéreo 572, Apt. Nacional 47, Bucaramanga. - L.P.: Dir. Gen.: P. Sorzano B. Dir. Tec.: G. Sorzano J. - D.PRGR.: N.: 12.00, 17.00, 24.00. English: W. 03.30-04.00. - ANN.: "Estas son las emisoras de R. Bucaramanga, transmitiendo en sus frecuencias H.J.G.F. Onda Corta 4845 kc/s, H.J.G.E. Onda Larga 1130 kc/s y Frecuencia Modulada 96 mc/s, desde Bucaramanga capital del departamento de Santander en la República de Colombia". English: "This is R. Bucaramanga transmitting over the following frequencies: Short Wave: International band of 62 m, 4845 kc/s; Long Wave: 1120 kc/s; FM 96 mc/s, from Bucaramanga, Colombia in South America". - V. by QSL-card. Re. in Sp., E.

10) Ca. 7a No. 5-69, Neiva. - L.P.: Dir.: L. Garcia. - V. by QSL-card.

11) Ca. 18 No. 8-54, Pereira. - 12) Ca. 9a No. 5-32, Cúcuta.

13) Carrera 9a No. 11-35, Bogotá. - L.P.: Dir.: A. Gaitan.

14) Passo Bolivar, Carrera Cuartel, Barranquilla. - V. by QSL-card.

15) Edif. Raad, Ibagué. - L.P.: Dir.: L. E. Martinez R.

16) Carrera 9a No. 12-23, Bogotá. - V. by QSL-card.

17) Apt. Aéreo 9339, Bogotá. - L.P.: Dir. Gen. & Dir. Tec.: H. Bernal A. - D.PRGR.: N.: every 15 min. - ANN.: "Aqui y en todas partes, R. Santa Fé 1070 y 4965 kc/s en Bogotá, Colombia". - V. by letter.

18) Tunja. - L.P.: Mgr.: L. Lopez R.

19) Apt. Aéreo 244, Manizales. Cable: Transmisora. Te.: 5549. - L.P.: Dir. Gen.: I. Escobar Uribe. Dir. Tec.: E. Ramirez Gaviria. - D.PRGR.: N.: Every half h. - ANN.: "Transmisora Caldas en Manizales Colombia Afiliada a R.C.N., Radio Cadena Nacional". - V. by QSL-letter.

20) Apt. Aéreo 1244, Medellín. Te.: 28642. - L.P.: Mgr.: R. Jaramillo I. Dir. Tec.: E. Ramirez C. - D.PRGR.: N.: 12.00, 17.30, 00.30, 04.45. - ANN.: "Esta es R. Cadena Nacional transmitiendo por su emisora La Voz de Medellín, 990 kc/s". - V. by QSL-card. Re. in F., E., Sp.

21) Carrera 9a 12-23, Bogotá. - L.P.: Mgr.: J. Munera L. Dir. Prgr.: V. M. Londoño E. Dir. Tec.: R. Henao. - D.PRGR.: m.w. 11.00-05.00. N.: 11.30, 18.30, 00.30, 03.30. - ANN.: "Aqui Bogotá, transmite La Voz de Colombia, en sus frecuencias de --- afiliada a Federación Colombiana de Radiodifusión, La Voz de Colombia, una emisora al servicio de la Cultura Nacional". - V. by QSL-card or letter. Re. in Sp. or E.

22) Carrera 6a No. 14-88, Bogotá. - V. by letter.

23) Carrera 47 (Sucre), 53-29, Medellín. - V. by QSL-card or letter.

24) Apt. 244, Pereira. - L.P.: Dir.: J. Mejía D. - V. by letter.

25) Carrera 16, 19-28, Armenia. Cable: Vozarmenia. - L.P.: Dir. Gen.: J. M. Toro E. Dir. Tec.: R. Rios. - D.PRGR.: N.: 12.30, 17.00, 24.00. - ANN.: "Emisora la Voz de Armenia 6010 kc/s onda corta banda internacional de 49 metros, 1090 kc/s onda local, 88.4 mc/s, frecuencia modulada, en Armenia Quindío-Colombia". - V. by letter.

26) Apt. Aéreo 89, Pereira. - L.P.: Dir.: O. Giraldo. - ANN.: "En 1230 kc/s la esucha Pereira y Colombia, en 6010 kc/s la esucha el mundo. Esta es La Voz Amiga, su amiga y su emisora". - V. by letter.

27) Apt. Aéreo 604, Ibagué. - V. by QSL-card or letter.

28) Apt. Aéreo 2180, Cali. - V. by letter.

29) Apt. Aéreo 31-63, Medellín. - L.P.: Dir.: M. G. Lopez. Dir. Tec.: F. Morandini. - ANN.: "Desde Medellín les habla R. Vision, onda larga 830 kc/s, canal preferencial, onda corta banda internacional de 49 metros del Circuito Todelar - lo moderno en radio". - V. by letter.

30) Carrera 9a, 10-45, Apt. Aéreo 1972, Cali. - L.P.: Dir.: F. Franco Garcia. - ANN.: "Esta es R. El Sol, 980 kc/s, canal preferencial; onda corta 6115 kc/s, banda internacional de 49 metros; del Circuito Todelar de Colombia, Radio El Sol, de Cali, en dos frecuencias para cubrir toda la república". - V. by letter.

31) Ca. 23, 1-25, Cali.

32) Apt. Aéreo 535, Popayan. - L.P.: Dir.: L. Burckhardt. - V. by letter.

33) Carrera 15, 13-47, Bogotá. - L.P.: Dir. Gen.: J. Harvey Caycedo P. Mgr.: J. Alvarez Botero. Dir. Tec.: A. Estevez. - D.PRGR.: N.: 12.00, 17.30, 24.00, 04.45. - ANN.: "Transmite Nueva Granada, desde Bogotá, Colombia, Estaciones HJKL, 610 kc/s, onda larga; HJKJ, 6160 kc/s, onda corta, HJKA, 107.1 mc/s; HJKB, 88.5 mc/s, Frecuencia Modula, Nueva Granada, estaciones de R.C.N., Radio Cadena Nacional, la mayor organizacion radial de Colombia". - V. by letter. Re. in Sp., E. Prgr. schedule on request.

34) Apt. Aéreo 1972, Ca. 11, 9-20, Cali. - V. by letter.

Medium Waves:

34) R. Manizales, Apt. Aéreo 67, Manizales. Te.: 1395. - L.P.: Dir. Gen.: A. Iragorri. Dir. Tec.: L. Eduardo M. - D.PRGR.: 11.00-05.00. N.: 12.00, 17.30, 24.00, 03.00. - V. by letter.

35) R. Renacimiento, Bogotá. - L.P.: Mgr.: V. Nieto. - V. by letter.

36) La Voz de Bello, Bello.

37) R. Miramar, Apt. Aéreo 246, Cartagena. - V. by letter.

38) Emis. Unidas, Apt. Aéreo 154, Barranquilla. V. by QSL-card.

39) R. Tricolor, Bogotá.

40) La Voz de Antioquia, Maracaibo 46-80, Medellín.

41) La Voz de Barranquilla, Barranquilla.

42) Emis. Monserrate, Bogotá.

43) Ecos de Pasto, Av. Santander 21-76, Pasto.

44) Ecos de la Montaña, Ca. 53, 52A-42, Medellín.

45) La Voz del Río Cauca, Carrera 18-39, Cali.

46) Ondas del Caribe, Sta. Marta.

47) Emisora Nuevo Mundo, Ca. 19, 9-48, Bogotá.

48) Voces de Occidente, Carrera 14, 2-31, Buga.

49) La Voz de los Comuneros, Bucaramanga.

50) Emisora Fuentes, Apt. Aéreo 91, Nal. 31, Cartagena.

51) R. Eco, Cali. - L.P.: Mgr.: H. Herrera B.

52) La Voz del Café, Carrera 8a, 15-47, Pereira.

53) R. Kalamary, Barranquilla. - L.P.: Mgr.: E. Ariza.

54) Emisora Clarida, Av. 10 de Mayo 49-53, Medellín.

55) Emisora Mil Veinte, Carrera 7a, 24-78, Bogotá.

56) R. San Andres, San Andres (Islands).

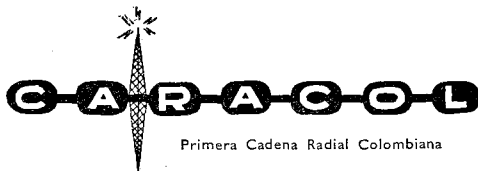
57) R. Progreso, Ca. 13, 14-17, Bogotá.

58) La Voz del Triunfo, Ca. 51 (Boyaca), 51-31, Bogotá.

59) La Voz del Sinu, Monteria.

60) R. Musical, Ca. 11, 9-20, Cali. - L.P.: Mgr.: B. Tobon.

61) R. Reloj, Ca. 53, 46-80, Medellín. - V. by letter.



Primera Cadena Radial Colombiana

8 emisoras propias, 3 de ellas con 50 kilovatios. 16 afiliadas. Cubrimos todo el territorio colombiano y gran parte de los países vecinos.

Cultura y diversión para millares de oyentes.

★ ECUADOR ★

62) Ondas del Valle, Carrera 5a, No. 12-23, 3° Piso, Cartago.

63) La Voz de Cucuta, Av. 5a, 10-11, Cúcuta.

64) R. Reloj, Carrera 42, 23-46, Barranquilla.

65) R. Reloj, Ca. 19, 8-48, Bogotá.

66) Ondas del Rio, Magangué.

67) R. Reloj, Carrera 1a, 18-39, Cali.

68) Emisora Riomar, Ca. 32, 42-19, Barranquilla.

69) R. Cartago, Carrera 4a, 10-62, Cartago.

70) R. Girardot, Ca. 8a, 10-19, 3° Piso, Girardot.

71) R. Cristal, Medellín. – L.P.: Dir.: J. Zuleta F.

72) Pregones del Quindío, Ca. 19, 14-42, Armenia.

73) R. Barrancahermaja, Barrancahermaja.

74) El Mundo en Bogotá, Carrera 7a, 17-14, 3° Piso, Bogotá.

75) La Voz de Sta. Marta, Sta. Marta.

76) La Voz de Santa Maria, Santa Maria.

77) La Voz del Ruiz, Manizales. – L.P.: Mgr.: F. Londoño.

78) R. Villa de Cespedes, Tulua.

79) R. Nueva Epoca, Fusagasuga.

80) R. Santander, Ca. 33, 15-20, Bucaramanga.

81) R. Nutibara, Edificio Alejandro Angel, Medellín. Te.: 14675. – L.P.: Dir. Gen.: J. García Lobo. Dir. Tec.: H. Cárdenas. – D.PGRG.: 11.30–05.00.

82) R. Popular, Carrera 9a, 13-42, Bogotá.

83) R. Cordobesa, Montería. – 84) Ecos de Ocaña, Ocaña. – 85) R. Industrial, Bogotá. – 86) Pontificia Bolivariana, Apt. Aéreo 1178, Medellín. 87) – R. Modelo, Bogotá. – 88) R. Vigía, Apt. Aéreo 154, Nal. 324, Barranquilla. – 89) R. Panamericana, Villamaría. – 90) Emisora Cultural Bolívar, Ipiales. – 91) Ondas del Nevado, Ibagué. – 92) Ecos del Combeima, Ibagué. – 93) Voz del Río Zulia, El Zulia. – 94) R. Palmira, Palmira. – 95) Onda Libre, Pereira.

96) Emisora Metropolitana, Carrera 7a, 22-79, Bogotá.

97) La Voz de Cartagena, Apt. Aéreo 246, Cartagena.

98) Emisora Siglo XX, Carrera 51 (Bolívar), 59–53, Medellín.

99) R. Guida, Girón. – 100) R. Libertador, Carrera 3a, 15-80, Cali. – 101) R. Valledupar, Valledupar. – 102) R. Villavicencio, Ca. 5a, Carrera 6a, Villavicencio.

103) La Voz de la Patria, Apt. Aéreo 231, Nal. 621, Barranquilla.

104) R. San Eugenio, Carrera 15, 15-32, Santa Rosa de Cabal.

105) Emisora Eldorado, Bogotá. – 106) Emisora de Aralaya, Piedecuesta.

– 107) R. Bochía, Bogotá. – 108) Emisora IRC, Palmira.

109) R. Vigía, Apt. Aéreo 91, Nal. 31, Cartagena.

110) Ondas del Fonce, San Gil. – 111) Voz de Calarca, Calarca.

112) Ondas del Puerto, Ca. 14, 11-19, Girardot.

113) La Voz de la Americas, Carrera 51 (Bolívar), 51-40, Medellín.

114) La Voz de Anserma, Anserma. – L.P.: Mgr.: H. Marín V.

115) Ondas del Huila, Banco Comercio, Neiva.

116) La Voz de Cundinamarca, Bogotá. – L.P.: Mgr.: L. Rodríguez.

117) R. Cultura, Carrera 7a, 16-42, Cali. – L.P.: Dir.: A. Mesa.

118) R. Piloto, Barranquilla. – L.P.: Mgr.: P. J. Cañizares.

119) R. del Comercio, Ca. 35, 12-66, Bucaramanga.

120) Emisora Variedades, Ca. 35, 35-106, Barranquilla.

121) Radio Sta. Barbara, Sta. Barbara.

122) R. Luz, Carrera 22, 16-19, Manizales.

123) R. Buenaventura, Ca. 5a Carrera 2a, Buenaventura.

124) Emisora Mariana Bogotá, Carrera 7, 6-10, Bogotá. Te.: 462712. – L.P.: Dir. Gen.: R. P. Manuel Cadierno. Mgr. & Dir. Tec.: Dr. Pomilio Sanchez. – D.PGRG.: 11.00-03.00 – English: 12.30 – German: 02.00 – F.PL.: S.w. in 19 & 31 m. Increase of power (1 kW).

125) R. Pipaton, Barrancahermaja. 126) Emisora Guadalajara, Carrera 5a, 8-53, Buga. – 127) R. Magdalena, Ca. 7a, 5-54, Santa Maria. – 128) Ondas del Guali, Honda. – 129) R. Gualmaral, Apt. 5-54, Cúcuta.

130) La Voz de la Dorada, Dorada. – L.P.: Dir.: J. N. Ramirez S.

131) R. Tulua, Carrera 26, Ca. 26 y 27, Tulua.

132) La Voz de Maria, Bogotá. – 133) R. Marina, Cartagena. – 134) Ondas de Riohacha, Riohacha. – 135) R. Belacazar, Ca. 5a, 5-81, Popayán.

136) R. Sogamoso, Sogamoso. – L.P.: Dir.: J. C. Medina S.

137) Voz del Caqueta, Florencia. – 138) Emisora Mariana, Pasto.

139) R. Sincelajo, Plaza Olaya Herrera, Sincelajo.

140) Armonías del Palmir, Ca. 29, 29-67 y 29-73, Palmira.

141) La Voz del Espinal, Espinal. – L.P.: Dir.: A. Useche B.

142) R. Centinela, Carrera 8a, Edificio Algira, Pereira.

143) La Voz de la Gran Colombia, Villa del Rosario.

144) R. Quibdo, Quibdo. – 145) R. Pamplona, Pamplona. – 146) R. Garzón, Ca. 7a con Carrera 8a, Garzón. – 147) R. Festival, Soacho.

148) R. Armero, Armero. – L.P.: Dir.: R. Andrade.

149) Voz del Paraiso, Cerrito. – 150) Voz del Montería, Montería.

151) Voz Panamericana, Floridablanca. – 152) R. Bolívar, Av. 8a, 10-110, Cali.

153) R. Sevilla, Carrera 50, Ca. 49 y 50, Sevilla.

154) La Voz del Litoral, Ca. 37, 43-80, Barranquilla.

155) La Voz de Pamplona, Pamplona, N. de Santander.

156) Liceo Departamental, Sonson.

157) R. Parroquial, Nemocon.

158) R. Boyaca, Apt. Nal. 97, Tunja. – V. by letter.

159) R. Copacabana, Copacabana.

L.T.: GMT ± 5 h. – Pr.L.: Spanish, Quechua. – Po.: 4.000.000. – Revrs.: 175.000. – E.C.: 110 V., A.C., 60 c/s.**INSPECCION DE RADIO**, Ministerio de Obras Publicas Dirección Técnica. – ADDR.: 18 de Septiembre 627 y Paéz, Quito. Cable: Radionacional. Te.: 30640. – L.P.: Dir.: A. Romero O.**ASOCIACION ECUATORIANA DE RADIODIFUSORAS** ADDR.: Apt. 289, Quito. Cable: Are. Te.: 10669.

STATIONS: Short Waves: Call: HC—.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) DR4	3355	89.42	0.2		R. Miramar
2) MS4	3375	88.89	0.2		R. Alejo Lascano: 05.30–09.30, 00.30–04.00
3) JP4	3385	88.63	0.2		R. Ondas Manabitas
4) SG4	3505	85.59	0.22		La Voz del Valle
5) NL2	3510	85.47	0.2		La Voz del Campesino
6) KD5	3515	85.35	0.2		R. Centro Gualaco
7) YC4	3520	85.23	0.2		R. Escuelas Radiales
8) OT1	3545	84.63	0.3		R. Saracay
9) HG2	3570	83.01	0.2		R. Central: 23.00–05.00
10) EF2	3620	82.87	0.1		La Voz del Sagrario: 12.00–13.00, 00.00–01.00
11) OS4	3630	82.64			La Voz del Carrizal
12) GB2	3660	81.97	1	825	R. Nac. Espejo, Guayaquil: 23.00–05.00
12)	3680	81.48	0.25		La Voz de los Lagos, Otavalo
13) IE1	3695	80.95			R. Cotacachi
14) HW2	3725	80.56	0.2		R. Rey
15) WN1	3835	78.20	0.2		La Voz del Triunfo
12) GB4	3910	76.73	1		R. Nac. Espejo, Esmeraldas
16) DY4	3945	76.05	0.25		R. Irits
17) PZ1	3950	75.95	0.3		R. Rumichaca: 11.00–04.30
18) CJ2	3960	75.76	0.2		R. Ecos del Agro
19) JH1	3965	75.67	0.35		R. Turismo: 11.00–04.30
20) HV4	3970	75.57	0.2		La Voz del Pueblo
21) SN6	3975	75.47	0.2	1225	R. Sira
22) CF4	3980	75.38	0.1		La Voz de Chone
23) AH3	3985	75.28	0.2		R. El Trebol
24) JA5	3990	75.19	0.25		La Voz del Río Tarqui
25) AO5	4000	75.00	0.3		La Voz de Tomebamba: 11.45–04.00
12) GB1	4635	64.72	1	1310	R. Nac. Espejo, Quito: 10.30–06.00
26) AS4	4790	62.69	0.2		La Voz de los Caras: 23.00–04.30
27) LJ6	4755	63.10	0.25		La Voz de Bolívar: 23.00–04.00
28) AK2	4650	64.52	0.5	1050	R.dif. del Ecuador: 12.00–05.00
29) MX4	4690	64.02	0.25		R. Cenit: 13.00–04.30
30) IMQ	4780	62.76	2	1490	R.dif. Atahualpa: 11.00–04.30
31) SV5	4800	62.50	0.2		R. Amazonas
32) LS3	4810	62.37	0.2		R. Corro Santa Cecilia
33) FA4	4815	62.31	0.3		La Voz de Manabí
34) ET2	4730	63.42	0.3	1160	R. El Telegrafo: 13.00–04.00
4) SG4	4835	62.05			La Voz del Valle
35) RM3	4725	63.48	0.2		R. Cultural Machala: 00.00–04.00
36) CV3	4850	61.86	0.25		Ondas del Zamora
37) CD1	4865	61.66		835	Luz de America
38) LM1	4735	63.35	0.2		La Voz de Imbabura: 00.00–03.30
39) AR1	4910	61.10	0.1		La Voz de Montúfar
40) IM1	4910	61.10	2	1410	R. Gran Colombia: 11.00–13.00, 00.00–06.00
41) LR5	4915	61.04	0.2		La Voz de Alausi
42) MP2	4920	60.98	0.2		La Voz de la Peninsula
43) QR1	5125	58.54	0.5	1360	R. Quito: 11.15–04.30
44) BX1	4930	60.85	1	1430	R. Casa de la Cultura: 11.30–13.00, 17.00–19.00, 00.00–03.15
45) XZ1	4940	60.73	10	640	R.dif. Nacional: 11.30–05.00
46) SC5	4960	60.48	1	1445	R. Ruta
47) GH1	4970	60.36	0.3	990	R. Tarqui: 11.05–04.00
48) JC5	4980	60.24	0.3	1200	R. Ondas Azuayas: 11.00–04.30
49) BJ2	5005	59.94	0.5	1220	R. El Mundo: 12.00–03.00
50) RP1	5010	59.88		880	R. Católica: 10.30–04.30
51) OB5	5105	58.76	0.2		R. Ondas Azules
52) PS5	5030	59.64	0.5		R. Ondas Cañaris
53) CU5	5035	59.58			La Voz de Azogues
54) ER1	5040	59.52	0.2		Escuelas Radiales
55) ED5	5045	59.46	0.25	1090	R. Roxi: 13.00–03.00
56) RI1	5070	59.18	0.25		Centro Radiofónico de Imbabura: 11.00–04.30
57) MV5	5060	59.25	0.25		R. Popular – La Voz del Austro: 11.00–04.30
59) CV5	5950	50.42		1390	La Voz de los Cuatro Rios
60) TR1	5960	50.34	0.3		R. Equinoccial
61) GR5	5965	50.29	0.2	910	R. Mundial: 13.00–04.00
62) JT1	5970	50.25	0.2		R. Tulcan

Ecuador

Call	kc/s	m	kW	m.w.	Name and h. of tr.
63) MH6	5975	50.21	0.3	1535	Rdfnco. del Cotopaxi: 11.00-04.30
64) GY6	5990	50.08	0.5		R. Luz: 12.00-14.00, 17.30-19.30, 22.00-01.00, 02.00-04.00
65) DF1	5890	50.93	0.8		La Voz del Norte: 11.45-04.00
66) EB4	6015	49.88	0.5		R. Manta: 12.00-14.00, 17.00-19.00, 23.00-04.00
67) NF5	6020	49.83	0.25		R. Ecuador
68) RQ2	6030	49.75	0.2		La Voz del Tropico
69) NK3	6235	48.10	0.5		R. Cariamanga: 23.00-04.00
70) JB	6050	49.59	2.5	700	La Voz de los Andes
71) AC1	6060	49.50	0.75	1280	La Voz de la Democracia: 11.30-14.00, 00.00-04.30
72) EM1	6065	49.46	0.2		Ondas Carchenses: 12.00-19.00, 21.00-04.00
73) IWS	6350	47.25	0.5		R. Mercurio
74) ED2	6080	49.34		800	R. Bolivar
75) VM6	6270	47.87	0.3		R. Once de Noviembre: 11.40-04.00
76) SPT	6095	49.22	0.4		La Voz del Perpetuo Socorro: 12.00-06.00
77) SP4	6100	49.18	0.3		La Voz de Volante: 10.00-03.00
78) VC3	6250	48.00	1		R. Centinela del Sur: 12.00-03.30
79) RL2	6635	45.24			R. Quinta Piedad: Wed. 02.00-04.00
80) FB2	6130	48.94	1.5	1140	R. Nac. Condor: 09.30-05.00
81) OV5	6140	48.86	1		La Voz de Volante: 10.00-03.00
82) TL4	6155	48.74	0.3		R. Costa Azul
83) SJ1	6160	48.70	1	654	R. Javier
84) PJ2	6170	48.62	0.2		R. Fluminense
85) RT6	6180	48.54	0.6	1355	R. Paz y Bien: See below
86) AX2	6185	48.50	0.2		La Voz de Vines
87) JC3	6190	48.47	0.25		R. 18 de Noviembre
88) PT6	6195	48.43	1	1550	R. Cosmopolita: 11.30-04.00
88a) JZ3	8900	33.70	0.2		R. Fenix, Zaruma: 00.00-03.00
70) JB	9745	30.78	1/30	700	La Voz de los Andes
89) AU2	4600	65.22	0.4	1350	R. Atalaya: 13.00-05.00
70) JB	11915	25.18	30	700	La Voz de los Andes
70) JB	15115	19.85	1/30	700	La Voz de los Andes
70) JB	17890	16.77	30	700	La Voz de los Andes

Medium Wave: Call: HC— °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
44) BX2	588	0.25	108) J1	980	0.3	126) UM2	1270	0.25
45) XY1	640	10	47) GH1	990	0.25	71) AB1	1280	0.35
83) SJ1	654	1	109) JV1	1020	0.25	127) DC2	1300	0.25
90) PV2	675	1	110) TO5	1027	1	12) GB1	1310	0.4
70) JB1	700	30	111) CW1	1040	0.3	128) JD6	1320	1
91) AM4	715	1	12) BG1	1045	1	12) PX1	1335	0.3
92) IC1	730	1	28) AJ2	1050	1	89) AU2	1350	0.25
70) JB	760	0.5	112) VP1	1065	0.5	85) PB6	1355	0.4
93) RG4	780	0.3	113) FD2	1080	0.3	43) QR	1360	0.5
94) BT4	790	0.25	55) ED5	1090	0.2	129) GR6	1380	0.25
74) DE2	800	10	12) BG6	1100	1	130) JN1	1385	0.3
8) VT2	810	0.2	114) AP1	1111	1	59) CV5	1390	0.3
95) ET6	820	1	115) LA2	1115	0.2	131) VE4	1395	1
12) GB2	825	2	116) GM7	1120	1	132) FL2	1400	0.2
37) CD1	835	1	80) IB2	1140	0.2	133) BS4	1400	1
96) AJ2	850	0.25	117) RK1	1145	0.4	12) GB6	1410	0.2
97) VN4	860	0.25	12) CZ5	1150	0.3	40) JM1	1410	2
98) NY2	870	1	34) ET2	1160	0.25	134) MB2	1425	0.25
50) RP1	880	0.5	118) VJ5	1170	0.25	44) BX1	1430	0.25
99) GC2	895	0.3	119) JR1	1180	0.4	46) SC5	1445	1
61) GR5	910	0.2	120) BE2	1190	0.3	135) AQ2	1450	0.25
100) RU3	914	1	121) CS1	1195	1	13) GM1	1460	0.25
101) CM1	920	0.5	48) JE5	1200	0.25	136) VM1	1475	0.4
102) VL2	925	0.3	122) GU1	1210	0.2	30) MQ1	1490	2
103) UE5	935	1	49) BJ2	1220	0.25	137) VR1	1520	0.3
104) DE2	945	0.2	21) JM6	1225	0.2	63) MH6	1535	0.2
105) MC2	955	0.2	123) CM1	1240	1	88) EJ6	1550	0.3
106) NC1	960	0.4	124) FA1	1245	0.35	138) DJ1	1560	1
107) AW2	975	0.2	125) RB2	1250	0.1	139) EG1	1590	0.5

Short Waves:

- 1) Bahía.
- 2) Ca. Bolivar 800, Jipijapa. - V. by QSL-card or letter.
- 3) Cantón 24 de Mayo, Sucre. - L.P.: J. N. Pinargote E.
- 4) Portoviejo. - 5) Naranjal. - 6) Gualecne. - 7) Campamento Lita.
- 8) Sto. Domingo de los Colorados, Quito.
- 9) Malecon Eloy Alfaro y Olmedo, Bahos Hotel, Vines. Cable: Emicentral. - L.P.: Dir. Gen.: S. Elizalde Cabello. Dir. Tec.: H. Guerrero G. - D. PRGR.: N.: 01.00, 03.00. - ANN.: "R. Central, transmite desde Vines, Provincia de Los Rios, Rep. del Ecuador, pais Amazonico, 1 kW en antena". - V. by letter.
- 10) Apt. 3958, Guayaquil. Te.: 12865. - L.P.: Dir. Gen.: E. N. Fiallos. Dir. Tec.: J. Magen. - V. by letter.
- 11) Calcuta. - L.P.: Dir.: R. Navarrete.

12) R. Nacional Espejo (Cadena Amarillo, Azul y Rojo del Ecuador). ADDR.: HCBG2: Av. 9 de Octubre, Guayaquil; HCBG1: Esmeraldas 865, Quito; HCBG1: R. Export, Quito; HCC25: La Voz de Riobamba, Riobamba; HCPX1: R. Victoria, Venezuela 632, Quito; HCBG6: Ambato; HCGM1: R. Reloj, Esmeraldas 865, Quito. - L.P.: Dir. Gen.: G. Brborich. Dir. Tec.: R. Flores. - ANN.: "R. Nacional Espejo la primera y mas potente emisora del pais". - V. by QSL-card.

- 13) Cotacachi. - 14) Quevedo.
- 15) Sto. Domingo de los Colorados, Quito.
- 16) Cas. 142, Esmeraldas. - L.P.: Dir.: D. Alvarez T.
- 17) Tulcan. - L.P.: Dir.: E. Cabezas G.
- 18) Quevedo. - L.P.: Dir.: J. C. Jalón F.
- 19) Otavalo. - L.P.: Dir.: J. A. Vivar.
- 20) Jipijapa. - L.P.: Dir.: H. Vásquez.
- 21) Ambato. - L.P.: Dir.: J. Mancero.
- 22) Chone. - L.P.: Dir.: O. Castro I.
- 23) Zaruma. - L.P.: Dir.: E. Guzman Z.
- 24) Cuenca. - L.P.: Dir.: M. Pulla C.
- 25) Cas. 766, Cuenca. Te.: 2650. - L.P.: Dir.: H. Espinosa T. - D. PRGR.: N.: 12.00, 17.00, 01.45.
- 26) Sucre 1922, Bahía. - L.P.: Dir.: A. Nevares.
- 27) Guaranda. - L.P.: Dir.: L. Alarcon.
- 28) Av. Almedo 111, Guayaquil. - 29) Portoviejo. - L.P.: as 1).
- 30) Apt. 3213, Quito. Cable: Rahualpa. Te.: 12385. - L.P.: Dir. Gen.: D. Gonzalo Maldonado. Dir. Prgr.: G. Jacome. Dir. Tec.: L. Calderón. Dir. For. Rel.: C. V. Perez. - D. PRGR.: N.: 11.00, 18.00, 23.00, 03.00. - Folklore Music: 23.15. - ANN.: "Esta es R. Atahualpa. Matriz del Circuito HCMQ. Transmite en 1490 kc/s, onda larga y 4780 kc/s, onda corta, desde Quito, Capital del Ecuador, Paiz Amazonico". - V. by letter. - Affiliated st.'s: 17), 19), 48), 56), 59), 63) and 88).
- 31) Cuenca. - L.P.: Dir.: A. Vega T.
- 32) Asoc. Juventud Femenina, Loja.
- 33) Portoviejo. - L.P.: Dir.: C. Chavez C.
- 34) 10 de Agosto 601, Guayaquil.
- 35) Concejo Municipal, Machala.
- 36) 24 de Mayo, Loja. - L.P.: Dir.: C. M. Balarezo.
- 37) Quito. - L.P.: Dir.: Dr. A. Dávila.
- 38) Apt. 59, Ibarra. - V. by QSL-card.
- 39) Centro Obrero de Montufar, San Gabriel.
- 40) Cas. 2246, Quito. Cable: Emigrancolumbia. Te.: 11670. - L.P.: Dir. Gen.: E. Cevallos C. Dir. Tec.: F. Simon. Dir. Adm.: L. Charpantier. - D. PRGR.: M.w.: 10.45-06.00. N.: 11.00, 18.00, 03.30. - ANN.: "Emisoras Gran Colombia-Matriz de RCNE - R. Cadena Nacional Ecuatoriana con 3 Emisoras propias en Quito y 20 Emisoras afiliadas en provincias". - V. by letter and streamer. Affiliated st.'s: 71), 130).
- 41) Alausi. - L.P.: Dir.: L. Rodriguez.
- 42) La Libertad. - L.P.: Dir.: M. Pinargote P.
- 43) Apt. 57, Quito. Te.: 10151. - L.P.: Dir. Gen. & Dir. Tec.: C. Villagomez. - D. PRGR.: N.: 12.00, 13.15 and every h. on the h. from 17.00. - ANN.: "R. Quito, La Voz de la Capital... 1360 y 5125 kc/s desde Quito, Ecuador". - V. by letter. - F.P.L.: S.w. 3 kW, m.w. 5 kW.
- 44) Apt. 67, Quito. Te.: 31123. - L.P.: Pres.: Dr. B. Carrion. Dir. of Broadcast.: G. Garcés M. Dir. Tec.: C. A. Semanate. - D. PRGR.: N.: 11.45, 03.00. - ANN.: "Esta es R. difusora de la Casa de la Cultura Ecuatoriana, que transmite desde sus estudios en la ciudad de Quito". - V. by letter. Re. in Sp. - Prgr. sched. on request. - F.P.L.: 1 kW m.w., 10 kW s.w. - HCBX2: Pedro M 818, Guayaquil.
- 45) Apt. 1316, Quito. - V. by letter and schedule.
- 46) Sindicato de Choferes, Riobamba.
- 47) Plaza del Teatro, Quito. - V. by letter.
- 48) Apt. 4980, Cuenca. - L.P.: Dir.: A. Cardozo. - V. by letter. - F.P.L.: m.w. 5 kW.
- 49) 9 de Octubre 308, Guayaquil. - L.P.: Dir.: G. Vergara.
- 50) Cuenca 937, Quito. - L.P.: Dir.: N. Rojas.
- 51) Cuenca. - L.P.: Dir.: O. Beltrán M.
- 52) Azogues. - L.P.: Dir.: H. Vicuña.
- 53) Azogues. - L.P.: Dir.: H. Castañer C. - 54) Cotacachi.
- 55) Teatro Roxy, Riobamba. - L.P.: Dir.: E. Abdo.
- 56) Ibarra. - L.P.: Dir.: A. Moran M.
- 57) Cuenca. - L.P.: Dir.: M. Villavicencio. - 58) see 52.
- 59) Cuenca. - L.P.: Dir.: D. Pinós.
- 60) Av. Mariano Acosta, Ibarra.
- 61) Riobamba. - L.P.: Dir.: G. Encalada.
- 62) Tulcan. - L.P.: Dir.: J. Betancourt.
- 63) Latacunga. - L.P.: Dir.: C. Morán B. - 64) Apt. 240, Ambato.
- 65) Ibarra. - L.P.: Dir.: F. Davila.
- 66) Apt. 4869, Manta. - L.P.: Dir.: E. Bowen. - D. PRGR.: N.: 12.30, 17.00, 23.30. - ANN.: "Transmite R. Manta, con sus estaciones..., la mas antigua y potente emisora del puerto. Desde Manta, Ciudad de turismo y primer puerto marítimo en la Provincia de Manabí". - V. by QSL-card or letter. - F.P.L.: 5 kW.
- 67) Cuenca. - L.P.: Dir.: L. A. Váskes. - 68) Quevedo. - L.P.: Dir.: E. Pazos S. - 69) Loja. - L.P.: Dir.: L. Cabezas.

70) LA VOZ DE LOS ANDES

Operated by missionary organization: The World Radio Missionary Fellowship, Inc. No comm. adv. Public Service and ann. of cultural activities accepted free of charge.

FL.: Supported by voluntary gifts from Evangelical Christian groups and "Share-the-cost" plan. - ADDR.: Cas. 691, Quito. Cable: Voz-andes. (USA Office: Voice of the Andes, Box 691, Miami 47, Florida). L.P.: St. Mgr.: Abe Van Der Puy. Asst Mgr.: Gustavo Saenz. Internat. Sec. Dir.: Hardy V. Hayes. Spanish Sec Dir.: Robert Clark (Cult.), Enrique Romero (Rel.). Eng. Dir.: Steve Hunter. Operations Dir.: Ben Cummings.

HOME SERVICE in Spanish: D. 10.30-04.45.

10.30-14.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s

14.00-24.00 on 700, 6050, 9745 kc/s

00.00-02.00 on 700, 6050, 9745, 11915, 15115 kc/s

02.00-04.00 on 700, 6050 kc/s.

N.: W.: 11.00, 11.20, 12.30, 15.30, 22.30 (exc. Sat.), 23.30 (Sat.), 00.00 (exc. Sat.), 01.30 (exc. Sat.), 03.55. Sun.: 11.00, 11.20, 12.00, 12.30, 13.45, 14.30, 01.30.

INTERNATIONAL SERVICE

TO EUROPE	Language	kc/s
D. 04.30-05.30	Russian	11915
D. 05.30-06.30	German	6050, 11915, 15115
D. 06.30-07.00	Swedish	9745
D. 07.00-08.30	Spanish	9745
Sun. 19.00-20.30	English g)	15115, 17890
a) 20.30-21.30	Spanish	15115, 17890
a) 21.00-21.30	German	15115, 17890
a) 21.30-22.00	Swedish	15115, 17890
D. 22.00-22.30	English g)	15115, 17890
D. 23.30-24.00	English b)	15115
TO EUROPE/U.K./SO. PACIFIC	English c)	6050, 9745, 11915, 15115
TO NO. & SO. AMERICA		
D. 10.00-10.30	Russian	6050, 9745, 11915, 15115
D. 10.30-14.00	Spanish	6050, 9745, 11915, 15115
D. 14.00-15.30 d)	English e)	15115, 17890
Sun. 16.00-17.00	Russian	15115, 17890
D. 17.00-19.00	Spanish	700, 6050, 9745
D. 22.30-23.00	Russian	15115, 17890
D. 23.00-23.30	German	15115, 17890
D. 23.30-24.00	English b)	15115, 17890
D. 02.00-05.00	English f)	9745, 11915, 15115

a) D. exc. Mo.; b) "Caribbean Call"; c) "Southern Cross Salute"; d) Sat. & Sun. 16.00; e) "Morning in the Mountains"; f) "Ecuadorian Echoes"; g) "Quito Calling".

Time Sig.: Automatically on h. and half h. Three short tones followed by a long tone at the exact min. - ANN.: E.: "This is sixty thousand watt radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our international audience on the 19, 25 and 31 m.b. The time in Quito is... the same as... GMT. This is radio station HCJB Quito, Ecuador, South America". - V. Listeners reports are wanted - these are studied by our engineers. If requested they are answered by QSL-card, in other cases by letter. - PUB.: Int. prgr.sched. free on request. "Call of the Andes" magazine, free to those requesting it from: HCJB: Box 691, Miami 47, Florida, USA. Sched. of Spanish prgrs. Internat. prgr.sched. - F.P.L.: Prgr.s in Japanese.

71) Apt. 288, Quito. - L.P.: Dir.: N. A. Mucarzel.

72) Apt. 30, Tulcan. - L.P.: Dir.: A. Baez. - ANN.: "La Voz de la simpatía popular". - V. by letter. Re. in Sp. Prgr.sched. on request.

73) Cuenca. - L.P.: Dir.: M. Merchan.

74) Soc. Distribuidora Ci. S.A., La Urdesa, Guayaquil.

75) Latacunga. - L.P.: Dir.: V. H. Muñoz.

76) Apt. 63, Cuenca. - L.P.: Dir. Gen.: J. C. Salazar. Dir. Tec.: S. Guerrero. - ANN.: "Esta es Ondas del Perpetuo Socorro, transmitiendo en su frecuencia de 6095 kc/s, banda de 49 metros, desde Cuenca Ecuador". - V. by letter. Re. in Sp. Prgr.sched. on request.

77) Sindicato Choferes, Portoviejo.

78) Cas. 196, Loja. - L.P.: Dir. Gen.: F. E. Coronel. - D. PRGR.: N.: 12.00, 18.00, 01.00. - ANN.: "Desde Loja Ecuador Pais Amazónico en Sud-América Transmite R. Centinela del Sur estación HCVC3 en 6250 kc/s Banda Internacional de los 49 Metros". - V. by letter. Prgr.sched. on request.

79) T. Martínez 209, Guayaquil. - L.P.: Dir.: P. de Levi.

80) Boyaca 1205, Guayaquil. Cable: Radcondor. - L.P.: Dir.: D. Ardito M. - D. PRGR.: N.: 11.30, 22.00, 23.30. - ANN.: "Esta es R. Condor de la Ciudad de Guayaquil, R. Condor la emisora que es da la mano con el pueblo" (every 5 min.). - V. by QSL-card. Rp. Re. in Sp.

81) Cas. 726, Azogues. - V. by letter.

82) Babahoyo. - L.P.: Dir.: J. Caballero.

83) Colegio San Gabriel, Quito.

84) Babahoyo. - L.P.: Dir.: J. Pazos.

85) Cas. 94, Ambato. Te.: 2120. - L.P.: Dir. Gen.: F. Bermudez. Dir. Tec.: E. Enrique Ruiz M. - D. PRGR.: m.w.: 12.00-03.00.

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"The Voice of the Andes"

HCJB

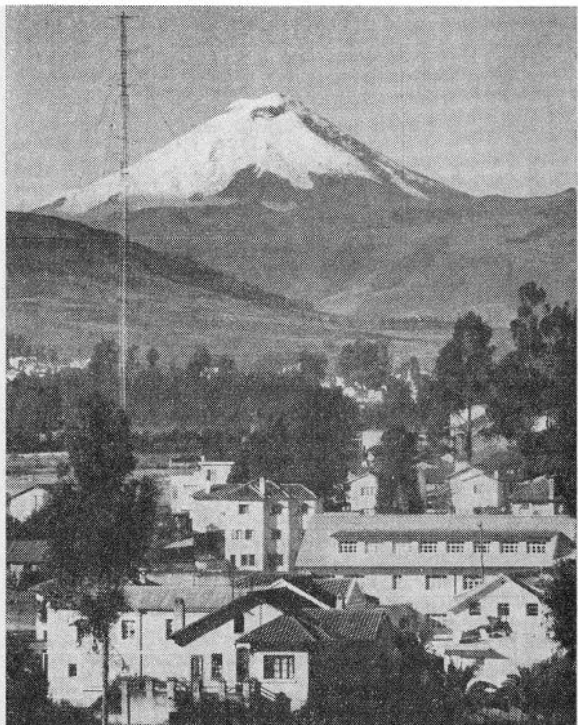
Located at:

Quito, Ecuador, So. America

Operated by:

"World Radio Missionary Fellowship, Inc."

for full details see page 185



5) Encarnación. - L.P.: Dir.: A. Vera. - D. PRGR.: ZP5: 11.00-03.00. N.: Every h. on the h. - V. by letter.
6) Independencia Nacional 603, Asunción. Te.: 6393. - D. PRGR.: ZP7: 10.00-03.00. - V. by letter.
Medium Waves:
7) La Voz del Amambay, Pedro Juan Caballero. - D. PRGR.: 10.30-11.30, 14.00-17.00, 22.00-01.00. - 8) R. Comuneros, Estados Unidos 6 9a, Asunción. - D. PRGR.: 09.00-03.00. - 9) R. Charitas, L. A. de Herrera 124-140, Asunción - D. PRGR.: 11.00-18.00, 20.00-03.00. - 10) R.dif. Mariscal López, 14 de Julio y J. E. O'Leary. - L.P.: O. A. González, Dir.: J. M. Chamorro Damas. - D. PRGR.: 10.00-03.00. - 11) R. Ipir, Concepción. - D. PRGR.: 11.00-17.00, 21.30-02.00. - 12) R. Central, San Lorenzo. - D. PRGR.: 11.00-17.00, 20.00-02.00.

★ PERU ★

L.T.: GMT ± 5 h. - Pr.L.: Spanish. - Po.: 13.000.000. - Revrs.: 2.000.000. - E.C.: 220 V., A.C., 60 c/s.

CORREOS Y TELECOMUNICACIONES DEL PERU

Departamento de Radio, Lima. - Te.: 79.381.

STATIONS: All st's comm. exc. 41), 43), 48), 49), 50), 68), 92) (Go.), 11), 13), 23), 27), 30), 33), 53), 83), 85), 87), 99), 100), 105), 106) (Cul.).

Short Waves: * = inactive.

Call	kc/s	m	kW	m.w.	Name	H. of tr.
1) OAX2A	3230	93.00	2	1560	R. Trujillo a)	12.00-05.30
2) OBX4V	3240	92.59	1	1010	R. América	12.00-06.00
3) OAX4G	3250	92.31	0.4	690	R. La Oroya ¹	
4) OAX6E	*3290	91.90	1	1370	R. Continental	
5) OBX4Y	3300	90.91	1	1370	R. Junin ¹	
6) OAX1M	3330	90.09	1	1170	R. Progreso ²	12.00-05.00
7)	3350	89.55	0.3	820	R. Sudamericana	
8) OAX5I	3350	89.55		730	R. Independencia ²	
9) OAX3D	3360	89.29	0.5	1460	R. Huánuco ¹	
10) OAX10	3380	88.76	1	1340	R. Chiclayo ²	
11) OCX4R	3390	88.50	0.1		R. Cultural, La Oroya d)	
12) OAX3G	*3890	77.12	0.5	690	R. Chimbote ¹	
13) OAX70	3960	75.76	0.5		R. Madre de Dios	23.00-06.00
14) OCX4W	4762	63.00	0.25	1470	R. Inca	11.00-06.00
15) OAX2G	4770	62.89	0.5	1370	R. Cajamarca ¹	
16) OAX3E	4808	62.40	0.5	1160	R. Huaraz ¹	
17) OBX1C	*4815	62.31	1	1540	R. Tumbes ¹	
18) OAX5U	4815	62.31		1580	R. Huancavelica	17.00-04.45
19) OAX7T	4835	62.05	0.35	1360	R. Sicuani	
20) OAX1X	4845	61.92	1	1460	R. Chira	
21) OCX4B	*4850	61.86	0.5	1400	R. Callao ¹	
22) OAX8I	4855	61.79	0.5	1470	R. Iquitos ¹	
23) OCX4T	4870	61.60	0.5		R. Cultural	
24) OCX4E	4880	61.48	1	1160	R. Once Sesenta	12.00-05.00
25) OAX2K	4910	61.10	0.3	1160	R. Libertad	
26) OAX2H	*4920	60.98	0.5	980	R. La Hora ¹	
27) OAX5Q	4934	60.80	0.25	1490	R. Cultural	
28) OAX6N	*4940	60.73	0.5		R. Misti ¹	
29) OAX4H	*4945	60.67	0.4	1270	R. Huacho ¹	
30) OAX5S	4955	60.54			R. Cultural	
31) OAX1S	*4960	60.48	0.5	1450	R. Lambayeque ¹	
32) OAX50	5010	59.88	1	620	R. Pisco	
33) OAX5R	5020	59.76	0.15		R. Cultural	
34) OAX7Q	5025	59.70	0.3		R. Quillabamba	
17) OAX1J	5050	59.41	1	1370	R. Tumbes ¹	
18) OAX5X	5440	55.15		1580	R. Huancavelica	
35) OAX7Z	5800	51.72	0.5	1300	R. Juliaca	12.00-14.00
36) OAX7K	5838	51.39	0.5	1130	R. Puno ¹	18.00-19.00, 22.00-04.00
4) OAX6E	5930	50.59	1	1370	R. Continental	01.00-04.00
37) OAX4P	5950	50.42	0.35	1470	R. Huancayo	11.00-06.00
16) OAX3E	5950	50.42	0.5	1160	R. Huaraz ¹	
38) OAX7L	5960	50.34	1	1030	La Voz del Altiplano	22.00-05.00
39) OBX4Q	5970	50.25	10	900	R. El Sol	11.00-05.00
40) OBX4M	5980	50.17	5	960	R. Panamericana	12.00-06.00
2) OAX4V	5995	50.04	3	1010	R. América	13.00-06.00
41) OAX7E	6000	50.00	1	1160	R. Nacional, Puno	11.45-14.00
42) OAX4Q	6010	49.92	3	780	R. Victoria ¹	11.00-06.00
43) OAX8B	6028	49.77	1	1030	R. Nacional, Iquitos	11.45-14.00
44) OAX6B	6038	49.69	0.5	1400	R. Landa	12.00-05.00
45) OAX6A	6042	49.65	0.3	1050	R. Arequipa ¹ b)	12.00-04.30
1) OAX2A	6057	49.53	0.5	1560	R. Trujillo	23.00-05.30
46) OAX8L	6062	49.48	0.4		R. Telesar	12.00-14.00
47) OAX4S	6070	49.42	0.3	1030	R. Onda Popular	24 h.
48) OAX4Z	6082	49.32	10	854	R. Nacional, Lima	11.45-14.00
49) OAX6F	6105	49.14	1		R. Nacional, Tacna	11.45-14.00

Call	kc/s	m	kW	m.w.	Name	H. of tr.
50) OAX4H	6115	49.06	0.3	1080	R. Mundial	12.30-05.00
51) OBX4Z	6115	49.06	1	590	R. Luz	12.00-05.00
52) OCX4M	6135	48.90	0.3	1490	R. Pasco ¹	
53) OAX9B	6140	48.86			R. Cultural	
54) OBX4G	6150	48.78	0.5	1360	R. Excelsior	12.00-05.00
55) OCX4G	6160	48.78	1	1580	R. Mundo	
6) OAX1N	*6170	48.62			R. Progreso ²	
56) OBX4B	6170	48.62	0.3	1540	R. Corporación	10.00-05.00
57) OAX7C	6175	48.58	0.3	1200	R. Tahuantinsuyo	
58) OAX4G	6190	48.47	0.3	1200	R. Lima	12.00-07.00
59) OAX4E	6195	48.43		1520	R. Minería	
60) OAX1B	6198	48.40	0.25	750	R. Piura	12.00-04.30
61) OAX7A	6200	48.39	1	1470	R. Cuzco	23.00-05.00
61a) OAX6I	6235	48.11	1		R. Universidad	12.00-18.00, 22.30-04.30
62) OBX4P	6300	47.62	0.75	1250	R. Miraflores	13.00-05.00
63) OAX1A	6700	44.74	0.3	1520	R. Delcar	12.00-05.30
4) OAX6D	9350	32.09	1	1370	R. Continental	11.00-06.00
64) OAX4J	9400	31.92	1	1320	R. La Crónica	11.00-07.00
2) OAX4W	9450	31.75	1	1010	R. América	12.00-06.00
65) OAX6H	9500	31.58	0.25	1470	R. Tacna ¹	10.50-05.20
66) OAX8E	9520	31.51	1	1520	R. Loreto	11.00-05.00
49) OAX6L	9530	31.48	1		R. Nacional, Tacna	11.45-14.00
67) OAX4K	9540	31.45	0.5	930	R. Central	12.00-06.00
68) OAX1Z	9550	31.41	2	1160	R. Nacional, Tumbes	11.45-14.00
48) OAX4R	9562	31.37	40	854	R. Nacional, Lima	11.45-14.00
41) OAX7F	9570	31.35	1	1160	R. Nacional, Puno	11.45-14.00
69) OBX4C	9585	31.30	0.75	1130	R. Selecta	12.00-04.00
70) OAX5K	9590	31.28	1	1270	R. Ica ¹	11.00-04.00
71)	*9600	31.25			R. Ayacucho ¹	
72) OAX1R	*9600	31.25	0.3	1340	R. Talara ¹	
43) OAX8C	9610	31.22	1	1030	R. Nacional, Iquitos	11.45-14.00
73) OAX8K	9625	31.17	1	1490	R. Atlántida	11.00-05.00
74) OCX4K	9635	31.14	5	985	R. Metropolitana	23.00-05.00
75) OAX1T	9645	31.10	1	1240	R. Grau ¹ c)	12.00-05.00
14) OCX4W	9675	31.01	0.25	1470	R. Inca	11.00-06.00
5) OBX4Y	*9680	30.99	0.5	1370	R. Junin ¹	
76)	*9680	30.99	0.5	1080	R. Salcantay	
77) OCX4Y	9695	30.94	1	1440	R. Contiente	11.30-06.00
78) OAX9D	9710	30.90	1	1340	R. Tropical	11.30-04.45
79) OAX7J	*9730	30.83	0.5	1400	R. La Hora ¹	
48) OBX4R	*11914	25.18	10	854	R. Nacional, Lima	
48) OAX4T	15150	19.80	40	854	R. Nacional, Lima	irregular
39) OBX4C	15170	19.78	0.5	900	R. El Sol	irregular
48) OBX4T	*21600	13.89	10	854	R. Nacional, Lima	

a) reported on 4300 kc/s - b) reported on 5960 kc/s - c) reported on 6100 kc/s - d) reported on 5830 kc/s.

Medium Waves: ° = Short Waves.

Call	kc/s	kW	Call	kc/s	kW
82) OCX4S	580	0.15	24) OAX4C	°1160	5
51) OBX4L	°590	10	41) OAX7D	°1160	1
83) OAX7W	620		68) OAX1K	°1160	2
32) OAX5P	°620	1	16) OAX3B	°1160	0.5
3) OAX4F	°690	0.4	25) OAX2C	°1160	0.3
12) OAX3F	°690	1	6) OAX1D	°1170	1
81) OBX4S	730	1	58) OAX4B	°1200	1
8) OAX5E	°730	0.5	87) OAX8M	°1200	0.5
60) OAX1Y	°750	0.3	48) OCX4Z	°1225	3
42) OAX4X	°780	10	75) OAX1H	°1240	2
84) OAX4O	820	1	62) OAX4L	°1250	1
7) OAX2J	°820	1	70) OAX5B	°1270	1
48) OAX4A	°854	20	29) OAX4H	°1270	1
39) OBX4X	°900	10	88) OAX4M	°1300	1
67) OAX4E	°930	5	89) OAX6P	°1300	0.4
40) OAX4D	°960	10	35) OAX7X	°1300	0.5
26) OAX2F	°980	1	64) OAX4I	°1320	10
74) OBX4J	°985	5	90) OAX1F	°1320 ²	1
2) OAX4U	°1010	10	78) OAX9C	°1340	1
47) OBX4O	°1030	1	91) OAX5D	°1340	0.3
38) OAX7N	°1030	0.25	71) OAX5H	°1340	0.5
43) OAX8A	°1030	1	10) OAX1	°1340	1
45) OAX6L	°1050	1	54) OAX4Y	°1360	3
50) OAX4F	°1080	3	19) OAX7R	°1360	0.35
76) OAX7S	°1080	0.8	92) OAX8G	°1370	0.5
1) OAX2B	°1095	2	93) OAX5I	°1370 ¹	0.5
48) OBX4A	°1120	90	94) OAX5F	°1370 ¹	
69) OAX4N	°1130	3	5) OBX4B	°1370	1
36) OAX7H	°1130	1	15) OAX2D	°1370	0.5
72) OAX1Q	°1130	1	4) OAX6C	°1370	1

Peru

	Call	kc/s	kW	Call	kc/s	kW
21)	OBX4W	1400	2.5	52)	OCX4P	1490 0.3
44)	OAX6J	1400	1	73)	OAX8J	1490 1
79)	OAX7I	1400	1	27)	OAX5L	1490
95)		1430 ¹	0.5	99)	OAX5N	1490 0.5
77)	OCX4X	1440	1	100)	OCX4V	1510 0.3
31)	OAX1I	1450	1	101)	OCX4J	1510 0.1
96)		1450	5	102)	OAX2L	1510 0.25
20)	OAX1V	1460	1	103)	OBX4D	1520 1
9)	OAX3C	1460	1	59)	OAX2D	1520
97)	OAX5K	1460	1	66)	OAX8D	1520 1
14)	OBX4E	1470	1	63)	OAX1C	1520 1
17)	OAX1G	1470	1	56)	OBX4N	1540 0.35
37)	OCX4D	1470	0.35	17)	OBX1B	1540
61)	OAX7G	1470	0.1	104)	OAX7U	1560 0.35
65)	OAX6K	1470 ¹	0.5	18)	OAX5M	1580 0.15
28)	OAX8H	1470	1	55)	OCX4F	1580 1
92)	OBX4I	1490				

FM: 39) OBX4F 90.1 mc/s 0.25 kW - 48) OCX4N 97.0 mc/s 0.05 kW - 48) OCX4O 98.0 mc/s 0.05 kW - 80) OCX4U 100 mc/s - 81) OCX4Q 103.5 mc/s.

¹) belongs to Cadena Nacional - ²) belongs to Emisoras Nacionales.

Short Waves:

- 1) Casilla 338, Trujillo. - L.P.: Dir. F. D. Montoya. - ANN.: "La Voz del Norte del Perú". - V. by letter.
- 2) Compañía Peruana de Radiodifusión S.A., Esquina Montero Rosas y Mariano Carranza, Lima. - L.P.: Mgr.: N. Gonzales. - ANN.: "La Voz del Nuevo Mundo, desde Lima". - 3) La Oroya.
- 4) Rivero 101, Arequipa. - L.P.: Mgr.: J. A. Umberto. - ANN.: "OAX 6C, OAX6D y OAX6E Emisoras de Radio Continental de Arequipa". - V. by QSL-card.
- 5) Callao 120, Huancayo. - 6) Huánuco 470, Piura. - 7) Independencia 565, Trujillo. - 8) Chiclayo 268, Ica. - 9) Huánuco. - 10) Edificio Banco Popular, Chiclayo. - 11) Instituto Industrial de Educación 11, La Oroya. - ANN.: "R. Industrial". - 12) Chimbote.
- 13) Vicario Apostólico, Puerto Maldonado. - L.P.: Dir. Gen.: J. Barriaes. Dir. Tec.: T. Guerrero. - D.PRGR.: N.: 00.30 - ANN.: "Emisora Madre de Dios OAX7O 3960 kc/s desde sus estudios en Puerto Maldonado, Emisora Cultural al servicio de la Iglesia Católica". - V. by letter. Reports in Sp.
- 14) Av. Wilson 1191, Lima. - 15) Plaza de Armas, Cajamarca. - 16) Huaraz.
- 17) Plaza de Armas, Tumbes. - ANN.: "La Voz de la Juventud". - V. by letter.
- 18) Huancavelica. - L.P.: Fernando Cruz M. - ANN.: "Una Voz del Corazón de los Andes".
- 19) Sicuani. - 20) Sullana.
- 21) Colón 260, Callao. - L.P.: Mgr.: C. Bovadilla. Dir. Tec.: E. Lastarria. - D.PRGR.: m.w. 12.00-05.00. - ANN.: "OBX4W 1400 kc/s y OCX4B 4850 kc/s Transmite Nueva R. Callao, La Voz del Primer Puerto del Perú". - V. by letter.
- 22) Iquitos. - 23) Obispo, Huancayo.
- 24) Av. Alfonso Ugarte 980, Lima. - L.P.: Dir. Tec.: J. Seminario. - ANN.: "R. Once Sesenta, la primera emisora dedicada a la mujer".
- 25) Bolívar 437, Trujillo. - L.P.: C. Burmester.
- 26) Trujillo. - 27) Concejo Provincial de Abancay, Abancay. - 28) Arequipa.
- 29) Huacho. - 30) Huanta. - L.P.: Dir.: M. E. Cueva Tafur. - 31) Chiclayo. - 32) Comercial Sánchez S.A., Pisco. - 33) Obispo, Ayacucho. - 34) Quillabamba. - L.P.: Dir.: C. Lizárraga.
- 35) Casilla 67, Juliaca. Cable: Radiojuliaca. Te.: 298. - L.P.: Dir. Gen.: Dr. J. Zea Gonzales. Dir. Tec.: V. Urviola Garrido. - D.PRGR.: N.: 18.00, 02.30. - ANN.: "R. Juliaca, una voz amiga en el Corazón del Altiplano desde los 3825 metros sobre el nivel del mar R.Juliaca, Perú". - Re. in Sp.
- 36) Arequipa 100, Puno. - L.P.: Dir. Gen.: J. E. Zea Gonzales. Dir. Tec.: R. Lazo V. - ANN.: "La Emisora de los Mejores Programas". - V. by QSL-card.
- 37) Av. Giraldez 368, Huancayo. - L.P.: H. Elejalde. - ANN.: "La Voz del Centro del Perú".
- 38) Oquendo 290, Apt. 130, Puno. - L.P.: J. E. Zea Gonzales. - ANN.: "En el corazón de los Andes usted escucha la emisora de los grandes éxitos". - 39) Pasaje Velarde 106, Lima.
- 40) Av. Arequipa No. 1110, Lima. - L.P.: Dir.: H. Delgado Parker. Dir. Tec.: M. Flores. - ANN.: "Sabe quién transmite? R. Panamericana" or "Panamericana, ciudad de Lima". - V. by letter.
- 41) R. Nacional de Puno, Puno.
- 42) Paseo de la República, Lima. - L.P.: Mgr.: J. E. Caverro. Dir. Tec.: E. Lastarria. - INT.-SIG.: First movement of Beethoven's 5th Symphony. - V. by letter.
- 43) R. Nacional de Iquitos, Iquitos. - V. by letter.
- 44) Sucre 409, Arequipa. - L.P.: Dir. M. J. Landa. - V. by letter.
- 45) Apt. 657, Arequipa. - L.P.: Gen. Mgr.: P. R. Zuhiga G. - V. by letter. (OAX6L=La Voz del Misti).
- 46) Apt. 83, Pucallpa. - L.P.: Dir.: A. Choque C. - D.PRGR.: N.:

- 12.30, 17.00, 24.00. - ANN.: "R. Telesar La Voz del Progreso y Cultura". - V. by letter.
- 47) Huallagá 515, Lima. - L.P.: Dir. Gen.: P. Tello. Dir. Tec.: G. Rojas. - ANN.: "R. Onda Popular".
- 48) R. Nacional del Perú, Petit Thouars 441, Lima. - L.P.: Dir. Gen.: G. Lazarte E. Dir. Tec.: R. Raggio, R. Pflucker. - D.PRGR.: m.w.: 11.45-05.00. - N. (All R. Nacional st's whether situated): 12.45, 18.00, 01.00, 03.00, News for Foreigners in Peru (Lima): D. 17.45 - English (Mo., Tues.), Italian (Wed.), French (Fri.), German (Sat.). - International Service on 15150 kc/s To Europe: 21.00-22.00 Mo., Wed., Fri. (English 21.00, French 21.15, German 21.30, Spanish 21.45). To Far East: 22.00-22.30 Tues. (Japanese 22.00, English 22.15). To North America: 02.00-02.30 Fri. (English 02.00, Spanish 02.15). - ANN.: "R. Nacional del Perú, la Primera Emisora del País". - V. by QSL-card.
- 49) R. Nacional de Tacna, Tacna. - V. by letter.
- 50) Unión 733, Lima. - L.P.: Dir.: M. Luna. Dir. Tec.: D. Capella.
- 51) Tacna 543, Lima. - L.P.: Dir.: W. R. Quintas. - ANN.: "R.-Luz, La Primera Emisora Del Dial". - V. by QSL-card.
- 52) Parra 245 or Apt. 128, Cerro de Pasco. - L.P.: Dir.: L. Rosazza. - ANN.: "Radiodifusora Cerro de Pasco S.A. Afiliada a la Federación Peruana de Radiodifusión y Cadena Nacional de Emisoras".
- 53) Obispo, Chachapoyas.
- 54) Camaná 975, Lima. - L.P.: Dir.: A. Belmont. Dir. Tec.: J. Farrant. - ANN.: "Transmite R. Excelsior la Emisora más Criolla del Perú".
- 55) Real 455, Huancayo. - L.P.: Dir. M. Guanay.
- 56) Lima 169 or Apt. 19, Cerro de Pasco. - ANN.: "La Voz de Cerro de Pasco, Afiliada a Asociación Nacional de Radiodifusoras del Perú".
- 57) Av. Sol, Cuzco. - L.P.: Dir.: R. Montesinos. - ANN.: "La Emisora de los Grandes Éxitos".
- 58) Nicolás de Piérola 533, Lima. - L.P.: Dir.: O. Dianderas.
- 59) La Oroya. - ANN.: "Desde el Corazón de los Andes".
- 60) Tacna 871, Piura. - L.P.: Dir.: J. C. Montjoy. - V. by letter.
- 61) Montero 114, Cuzco. - L.P.: Dir.: C. Lizárraga. - ANN.: "La Voz de la Capital Arqueológica de América". - V. by QSL-card.
- 61a) Cas. 23, Arequipa. Te.: 2340 - L.P.: Dir. Gen.: J. Cornejo P. Dir. Tec.: H. Delgado C. - D.PRGR.: N.: 00.20 - ANN.: "OAX6I, R. Universidad, Emisora Oficial del Instituto de Extensión Cultural de la Universidad Nac. de San Agustín de Arequipa". - V. by letter.
- 62) Larco 760, Miraflores, Lima. - L.P.: Dir. Gen.: C. Palma S. Dir. Tec.: R. Palma S.
- 63) Casilla 9, Chiclayo. - L.P.: Dir.: A. J. C. Montjoy D. - ANN.: "La Voz del Norte para todo el Perú" and "La Emisora que está más tiempo en su dial". - V. by letter.
- 64) Tacna 665, Lima. - L.P.: Dir.: J. Silva. Dir. Tec.: W. Linsen and G. Ruiz.
- 65) Casilla 188, Tacna. - L.P.: Dir.: J. S. Cáceres V. - ANN.: "Transmite R. Tacna y La Voz del Sur simultáneamente". - V. by letter. (OAX6K="La Voz del Sur").
- 66) Arica 30, Iquitos. - ANN.: "La Voz del Oriente Peruano" and "Desde el Corazón de la Amazonia Peruana Transmite R. Loreto".
- 67) Unión 1038, Lima. - L.P.: Dir.: G. D. Brandt, J. G. Bresani, M. G. de Rivero. Dir. Tec.: A. Gonzales A. - ANN.: "En su receptor y en todas partes R. Central, la Emisora más Popular".
- 68) R. Nacional de Tumbes, Tumbes. - V. by letter.
- 69) Nicolás de Piérola 1014, Lima. - L.P.: Dir. Gen.: J. Caverro. Dir. J. C. Andrade. - ANN.: "Esta es OAX4N, R. Selecta de Lima, una emisora al servicio de la cultura musical del país".
- 70) Ica. - 71) Ayacucho. - 72) Talara.
- 73) R. Atlántida, Apt. 277, Iquitos. - L.P.: Dir.: J. Reátegui B. Dir. Tec.: M. Panduro. - D.PRGR.: N.: 12.00, 17.30, 01.30. - ANN.: "Escuche y compare... Aquí Transmite Radio Atlántida... Tan majestuosa como el Amazonas, por su alcance y potencia, Atlántida... dos poderosas ondas radiales que cubren nitidamente la mas grande región del Perú". - V. by QSL-card and letter. Re. in Sp. Prgr. schedule free on request.
- 74) Jirón de la Unión 1042, Of. 302, Lima. Cable: Meradio. Te.: 45035. - L.P.: Gen. Mgr.: A. Rouillon O. Dir. Tec.: A. Telleria. - D. PRGR.: m.w.: 12.00-05.00. N.: 17.00, 03.15. English: 18.00, 02.30. - ANN.: "Transmite R. Metropolitana en Lima, Perú". - V. by letter.
- 75) Cuzco 850, Tumbes. - L.P.: Mgr.: J. Giron S.
- 76) Cuzco. - L.P.: Dir.: R. Campana. - 77) Lima.
- 78) Jirón Bolognesi, Tarapoto. - L.P.: Mgr.: J. Pablo Mori. Dir.: CAugusto Salinas. - ANN.: "La Emisora más potente del Oriente Peruano" or "Una voz Sanmartiniana para el Perú y toda América". - V. by letter. - 79) Cuzco.

FM and Medium Waves:

- 80) R. Cien, Camaná 631, Lima.
- 81) R. Ritmo, José Díaz 190, Lima.
- 82) R. Imperial, Cañete. - L.P.: Dir.: R. Pachas.
- 83) Gran Unidad Escolar Inca Garcilaso, Cuzco.
- 84) R. Libertad, Unión 1038, Lima. - ANN.: "La Voz de la Juventud".
- 85) See 61 a). - 86) see 99).
- 87) R. Mariana, Vicariato Apostólico, Iquitos.
- 88) R. Atalaya, Camaná 975, Lima.

- 89) R. Tacna, Tacna. - L.P.: Dir.: C. Urday Banchemo.
 90) R. Talará, Talará.
 91) R. Chinchá, Los Angeles 322, Chinchá. - L.P.: Dir.: G. Jordán Cánepa.
 92) R. Sargento Lores, Inspección General del Ejército, Iquitos.
 93) R. Abancay, Abancay.
 94) R. Huancavelica, Huancavelica.
 95) R. Mollendo, Mollendo.
 96) R. Internacional, Pisco.
 97) La Voz del Puerto, Pisco. - L.P.: Dir.: B. Villa.
 98) R. Santa Rosa, Camaná 170, Lima.
 99) R. Nasca, Apt. 67, Nasca - D.PRGR.: 12.00-05.00 - V. by letter.
 F. PL.: 0.5 kW sw-tr. (already under construction).
 100) R. Fessa, Cañete.
 101) R. Tarma, Huaráz 298, Tarma. - Owner: Sociedad Colectiva Néstor Monteverde.
 102) R. Pacasmayo, Pacasmayo. - L.P.: Dir.: J. Gamero é Hijos.
 103) R. Reloj, Ocoña 484, Lima.
 104) Universidad Nacional del Cuzco, Cuzco.

★ SURINAM (Dutch Guiana) ★

L.T.: GMT ÷ 3 1/2 h. - Pr.L.: Dutch, English, Hindustani, Japanese. - Po.: 350.000. - Revrs.: 44.000. - E.C.: 125 V., A.C., 50 c/s.

ALGEMEENE VERENIGING RADIO OMROEP (Comm.)
 ADDR.: A.V.R.O.S., P.O. Box 720, Paramaribo. Te.: 2560. - L.P.: Chairman of the Board of Directors: E. Bruma. Dir. Tec.: E. Emanuel.
 HOME SCE.: 09.30-03.30. *) directed to Curaçao.

1035 kc/s 289.9 m 4 kW: as above
 3395 - 61.83 - 0.4 - as above
 4852 - 62.00 - 0.4 - Foreign Sec. (see below)
 15465*) - 19.40 - 0.35 - 09.30-12.30, 20.30-03.30
 N. in Dutch: 09.50, 11.30, 13.30, 17.15, 22.30, 02.15. - N. in Surinam language (talkie talkie): 15.30, 23.35. - N. in Hindi: 19.20.

FOREIGN SCE.: on 1035/4852/15465 kc/s:
 Mo. 01.30-02.00 "Surinam calls the Caribbean" in English and Spanish - Tues. 02.30-03.30 Special prgr. for the Netherlands Antilles. - ANN.: Sp.: "Esta es Radio Surinam, la AVROS, en Paramaribo, capital de Surinam, uno de sus vecinos en la America del Sur". - Dutch: "Hier is R. Suriname de Avros op golfengten van...". - V. by letter.

RADIO APINTIE (Comm.)

ADDR.: P.O. Box 352, Paramaribo. - L.P.: Dir. Gen.: E. Vervuurt.
 HOME SCE. in Dutch, Talkie-Talkie, English, Hindustani, Japanese, Chinese and French: 09.30-02.30.
 840 kc/s 355 m 1 kW: N.: 09.40, 13.30, 17.15, 22.30, 01.15.
 ANN.: "Radio Apintie, Paramaribo". - V. by letter.

★ URUGUAY ★

L.T.: GMT ÷ 3 h. - Pr.L.: Spanish. - Po.: 3.000.000. - Revrs.: 1.000.000. - E.C.: 220 V., A.C., 50 c/s.

DIRECCION DE RADIOCOMUNICACIONES, Montevideo.
 L.P.: Dir.: R. Buoncristiano.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS

ADDR.: Uruguay 1218, Montevideo. Cable: Andebu. Te.: 84456. - L.P.: Pres.: Dr. J. Jimenez de Arichaga. Secr.: F. Raul Correa.
 STATIONS: All st. pr. comm. exc. 7), 33), 34).

Short Waves: Call: CX---

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) A2	6000	50.00	5	1170	R. Sur: 10.00-03.00
2) A30	6035	49.71	1	1130	R. Nacional: 15.00-03.00
3) A61	6045	49.63	10	810	El Espectador: 12.00-03.00
4) A53	6055	49.55	5	1340	La Voz de Melo: 10.00-03.00
5) A3	6075	49.38	2.5	730	R. Ariel: 10.00-03.00
6) A73	6115	49.06	2	580	R. Clarín: 24 h.
7) A4	6125	48.98	10	*	S.O.D.R.E.: 13.00-03.10
8) A20	6140	48.86	10	930	R. Monte Carlo: 10.00-03.00
9) A13	6155	48.74	10	850	R. Carve: 14.00-18.00, 22.00-03.00
10) A21	6170	48.62	1	1330	R. Fenix: 14.00-16.00, 21.00-01.00
11) A71	9515	31.53	10	690	R. Sarandí: 12.00-20.00
8) A72	9595	31.27	10	930	R. Monte Carlo: 14.00-19.00
7) A6	9620	31.19	20	*	S.O.D.R.E.: 12.00-03.10
12) A7	11735	25.56	5	770	R. Oriental: 11.00-15.00, 20.00-02.00
3) A19	11835	25.35	5	810	El Espectador: 10.55-03.00
11) A68	*11885	25.24	10	690	R. Sarandí:
7) A10	11900	25.21	20	*	S.O.D.R.E.: 12.00-03.10
4) A64	*15225	19.70	25	1340	La Voz de Melo
11) A60	15385	19.49	10	690	R. Sarandí: 21.00-01.00 irr.

*) 650/1050/1290 kc/s.

Medium Waves: ° = Short Wave.

Call	kc/s	kW	Call	kc/s	kW
13) CW1	550	4.5	4) CW53	°1340	2.5/1
6) CX58	°580	0.5	25) CW41	1360	0.5
14) CX4	610	5	26) CX42	1370	2.5
7) CX6	°650	50	27) CW45	1390	1/0.5
15) CW27	680	1/0.25	28) CW46	1400	10
11) CX8	°690	10/5	29) CX44	1410	5
5) CX10	°730	5/2.5	30) CW43	1420	1/0.5
12) CX12	°770	25	31) CW25	1430	1
3) CX14	°810	25	32) CX46	1450	5/2.5
16) CX23	820	1/0.5	33) CW46B	1460	0.25
9) CW16	°850	50	34) CW46C	1460	0.03
3) CX18	°890	10/5	35) CX147	1470	1/0.5
8) CX20	°930	10/5	36) CW43B	1480	2
17) CX22	970	1.5	37) CX48	1490	5
9) CX24	°1010	2.5	38) CW47B	1510	0.1
7) CX26	°1050	20	39) CX152	1520	0.25
18) CX28	1090	10/5	40) CX50	1530	0.5
19) CW31	1120	2/0.5	41) CX155	1550	0.25
2) CX30	°1130	10/5	42) CW51	1560	0.5
1) CX32	°1170	10/5	43) CX52	1570	0.25
20) CW33	1200	0.25	44) CV157	1570	0.1
21) CX34	1210	2.5	45) CX157	1570	0.1
22) CW35	1240	2/1	46) CW54	1580	0.25
23) CX36	1250	3/1	47) CX158	1580	0.1
3) CW37	°1260	1/0.25	48) CX159	1590	0.25
7) CX38	°1290	1	49) CW56	1600	0.25
24) CW39	1320	0.5/0.1	50) CV160	1600	0.1
10) CX40	°1330	0.5	51) CX160	1600	0.25

Short Waves:

- Compañía Uruguaya de Publicidad S.A., Yi 1383, Montevideo.
- O.R.O.S.A., Plaza Independencia 846, Montevideo. - V. QSL-card.
- Difusoras del Uruguay S.A., 18 de Julio 1393, Montevideo. - D.PRGR.: CX14 El Espectador: 09.58-03.00; CX18 R. Libertad Sport: 10.50-03.00; CW37 Difusora Rochense, Dr. Julián Graña, Rocha: 11.00-01.00 (Sat. & Sun. 03.00).
- Montevideo 721, Melo. - L.P.: Dir.: R. D. Lucas. - D.PRGR.: CW53: 11.00-03.00.
- Olimar 1472, Montevideo. - L.P.: Dir.: J. U. Pierri. - V. by QSL-card.
- Colonia 1487, Montevideo. - Te.: 405841. - FI.: By adv. - AD.: 3 min. for every 15 min. of music. - L.P.: Dir.: Ing. F. D. Tourelles. Dir. Tec.: G. Duarte. - D.PRGR.: Folklore Music: D. 11.00. - N.: 11.00, 13.00, 15.00, 17.00, 19.00, 21.00, 23.00, 01.00. - Wrp.: D. 16.00. - Italian: "La Voz de Italia" D. 23.15. - ANN.: "CX58 R. Clarín. Desde la punta del dial clarinadas de patria y libertad" (every 15 min.s) - V. by letter. - F.PL.: FM.
- Mercedes 823, Montevideo. Cable: Sodre. - D.PRGR.: CX6/CX26: 12.00-03.10. CX38: 21.00-03.00. - N.: 13.00, 15.00, 20.00, 24.00, 02.55. - ANN.: "Servicio Oficial de Difusión Radio Eléctrica Montevideo con sus emisoras...". - INT.-SIG.: First movements of "Campeo". - V. by QSL-card.
- 18 de Julio 1224, 4º piso, Montevideo. Cable: Montecarlo. - L.P.: Dir. Gen.: H. Romay S. - D.PRGR.: CX20 930 kc/s: 10.00-03.00.
- Mercedes 973, Montevideo. Cable: Sadrep. - L.P.: Dir. Gen.: R. Fontaina, J. E. De Feo. Dir. Tec.: A. Salvo. - V. by QSLcard.
- Río Branco 1366, Montevideo. - L.P.: Dir.: J. J. Rabassa. - D.PRGR.: CX40: 10.00-05.00 (Sat. 06.00).
- Corporación de Publicidad S.A., Bulevar Gral. Artigas 1515, Montevideo. - L.P.: Dir.: A. Pérez Parrabere. - D.PRGR.: CX8: 10.45-03.00. - V. by letter.
- Olimar 1364, Montevideo. Te.: 81483. - L.P.: Dir. Gen.: L.A. Artola. Mgr.: R. Rodriguez. Dir. Tec.: B. Baareiro. - D.PRGR.: 10.00-04.15. - N.: 11.00, 14.00, 16.00, 20.00, 23.00, 24.00, 01.00, 02.00, 03.00, 04.00. - ANN.: "CX12, CXA7 - Radio Oriental". - V. by QSL-card.
- Medium Waves:
- R. Colonia, Alberto Mendez 164, Colonia. - L.P.: Dir.: R. Montellano. - D.PRGR.: 10.00-05.00 (Fri. 05.30, Sat. 09.00).
- R. Rural, Diario Rural S.A., 18 de Julio 1513, Montevideo. - L.P.: Dir.: A. M. Lázaro. - D.PRGR.: 09.58-03.00 (Sat. & Sun. 06.00).
- R. Tabaré, Uruguay 678, Salto. - L.P.: Dir.: J. M. Gestoso. - D.PRGR.: 10.00-03.00.
- R. Cultural, Lavalleja 42-48, Salto. - L.P.: Dir.: Ramón J. Vinci & Hector J. Carbone. - D.PRGR.: 10.00 (Sun. 10.30)-03.00.
- R. Universal, Soriano 1217, Montevideo. - L.P.: Dir.: O. Porrás. - D.PRGR.: 10.00-03.00 (Sat. 05.00).
- R. Imparcial, Av. Agraciada 1708, Montevideo. - L.P.: Dir.: W. Figueira M. - D.PRGR.: 24 h. - V. by QSL-card.
- R. Salto, Brasil 715, Salto. - L.P.: Dir.: S. Pera. - D.PRGR.: 11.00-03.00. - V. by letter.
- Difusora Florida, Gallinal 696, Florida. - L.P.: Dir.: U.H. Acuña. - D.PRGR.: 13.00 (Sun. 12.30)-01.00.
- R. Artigas, Av. Millán 2370, Montevideo. - D.PRGR.: 12.30-02.30.

Uruguay – Venezuela

- 22) R. Paysandú, 18 de Julio 1044, Paysandú. – L.P.: Dir.: A. M. Ordoqui. – D.PRGR.: 11.00–03.00.
- 23) Broadcasting Centenario del Uruguay, Olimar 1364, Montevideo. – FI.: By advertisements. – L.P.: Dir.: J. L. Rubio. Mgr.: F. Correa. Dir. Tec.: R. Walder. – D.PRGR.: 09.30–07.00. – V. by letter. – F.P.L.: FM.
- 24) La Voz de Paysandú, 18 de Julio 614, Paysandú. – L.P.: Dir.: A. M. Penna. – D.PRGR.: 11.00–03.00.
- 25) Broadcasting San José, Treinta y Tres 890, San José. – L.P.: Dir.: C. Marín A. & R. Sguilla M. – D.PRGR.: 13.00–02.00.
- 26) R. del Pueblo, Mercedes 1805, Montevideo. – L.P.: Dir.: R. Baz. – D.PRGR.: 11.15–03.00.
- 27) Difusora Treinta y Tres, Pablo Zufriategui 230, Treinta y Tres. – L.P.: Dir.: A. Pinho. – D.PRGR.: 10.50–03.00.
- 28) Difusora Zorrilla de San Martín, 18 de Julio 310, Tacuarembó. – L.P.: Dir.: Luis S. Dini. – D.PRGR.: 09.30–02.30. – V. by QSL-card.
- 29) R. Austral, 18 de Julio 965, 2° piso, Montevideo. – L.P.: Dir.: Raúl Beisso C. – D.PRGR.: 11.55 (Sun. 08.25)–02.00.
- 30) R. Lavalleja, José E. Rodó 530, Minas. – L.P.: Dir.: J. R. Volante. – D.PRGR.: 12.55–02.00.
- 31) R. Durazno, 18 de Julio 592, Durazno. – L.P.: Dir.: R. Evangelisti. – D.PRGR.: 14.00–00.30.
- 32) R. América, Plaza Independencia 846, Montevideo. – L.P.: Dir.: M. Svirsky. – D.PRGR.: 13.00 (Sun. 12.00)–17.00, 19.00 (Sat. 18.30)–01.00.
- 33) Liceo de Dolores, Liceo de Dolores, Soriano.
- 34) Liceo de San Carlos, San Carlos, Maldonado. – D.PRGR.: 21.00 24.00 (Sun. 10.00–13.00).
- 35) R. Montevideo, Río Branco 1366, Montevideo. – D. PRGR.: 11.00–02.00.
- 36) R. Internacional, Sarandí 792, Rivera. – L.P.: Dir.: W. Figueira M. – D.PRGR.: 09.00–03.00 (Sat./Sun.: 24 h.).
- 37) R. Femenina, 18 de Julio 1333, 2° piso, Montevideo. – L.P.: Dir.: Sara Vazquez. – D.PRGR.: 13.00–01.45.
- 38) R. Berna, Nueva Helvecia. – L.P.: Dir.: M. A. Ravazzani. – D. PRGR.: 10.00–16.30, 18.00–23.30.
- 39) R. Cerro Largo, Ituzanningo 660, Melo. – L.P.: Dir.: E. Mariño. – D.PRGR.: 11.00–03.00.
- 40) R. Independencia, Paysandú 1186, Montevideo. – L.P.: Dir.: A. Rupenian. – D.PRGR.: 11.00–03.00.
- 41) R. Carmelo, 19 de Abril 444, Carmelo. – L.P.: Dir.: U. Lobecio P. – D.PRGR.: 11.00–03.00.
- 42) R. Maldonado, Isla de Gorriti 819, Maldonado (or 18 de Julio 1561, Montevideo). – L.P.: Dir.: H. Lamaison. – D.PRGR.: 12.00–02.00.
- 43) R. Litoral, España 1157, Fray Bentos. – L.P.: Dir.: G. Arizti. – D.PRGR.: 12.00–02.00.
- 44) R. Bella Union, Dept. Artigas. – L.P.: Dir. W. Othaix. – D.PRGR.: 11.00–03.00.
- 45) R. Canelones, Canelones. – L.P.: Dir.: W. Espiga. – D.PRGR.: 11.00–03.00.
- 46) Emisora del Este, Domingo Pérez 491, Minas. – L.P.: Dir.: C. R. Falco. – D.PRGR.: 10.45–02.00.
- 47) R. Rivera, Monseñor Vera 1132, River. – L.P.: Dir.: D'Aragnán Pedezert. – D.PRGR.: 10.30–17.00, 20.00–00.30.
- 48) Emisora Real de San Carlos, Av. Gral. Flores 468, Colonia. – L.P.: Dir.: Dr. E. Geimonart. – D.PRGR.: 10.00–03.00.
- 49) Difusora Soriano, Florida 568, Mercedes. – L.P.: Dir.: M. M. Racioppi. – D.PRGR.: 10.00–03.00.
- 50) R. Atlántica, Parada 3, Punta del Este. – D.PRGR.: 11.00–03.00.
- 51) R. Río Branco, Río Branco. – L.P.: Dir.: R. D. Lucas.

★ VENEZUELA ★

L.T.: GMT ÷ 4½ h. Pr.L.: Spanish. – Po.: 7.361.703 (26/2 1961). – Rvrs.: 1.300.000. – E.C.: 110/220 V. A.C., 50 c/s.

MINISTERIO DE COMUNICACIONES

ADDR.: Dirección de Telecomunicaciones, División de Radiodifusión, Caracas.

CAMARA VENEZOLANA DE LA INDUSTRIA DE LA RADIO Y TELEVISION:

ADDR.: Apt. de Correos 3155, Caracas. Cable: Camradio. Te.: 425805. L.P.: Pres.: F. Cardona Moreno.

STATIONS: All st.'s, comm. exc. 43) (Go.) & 17) (Rel.)

Short Waves: Call: YV—, *)=inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.	
1) QG 2360	127.1	1	940		R. Carupano	09.30–03.30
2) LG 2440	122.9	1	660		R. Girardot	
3) NI 2470	121.5	1	1140		R. Carora	10.30–02.30
4) OO 2490	120.5		1130		R. Valles del Tuy	
5) KT 3245	92.45	1	880		R. Libertador	10.30–04.30
6) QL 3255	92.17	0.5	980		La Voz del Tigre	11.30–03.30
7) OC 3265	91.87	1	780		Ecos del Torbes	10.30–03.30
8) MC 3275	91.60	1	1150		R. Mara	10.30–03.30
9) LE 3285	91.32	1	1290		R. Puerto Cabello	10.30–02.30
10) OG 3295	91.10	0.7	1420		R. Trujillo	11.00–02.30

Call	kc/s	m	kW	m.w.	Name and h. of tr.	
11) KX 3305	90.77	3	710		La Voz de la Patria	10.30–03.30
12) LI 3315	90.50	1	930		R. Maracay	11.30–03.30
13) RA 3325	90.22	0.6	960		R. Monages	11.25–03.30
14) QD 3335	89.95	2	1030		Ecos del Orinoco	10.20–03.30
15) KP 3345	89.68	2	1050		R. Tropical	
16) LC 3355	89.41	1	850		R. Valencia	10.30–03.30
17) MI 3375	88.89	0.6	1400		La Voz de la Fe	11.30–02.30
18) OL 3385	88.63	1	1080		R. Barcelona	09.30–03.30
19) OJ 3395	88.37	1	1450		R. Universidad	10.30–03.30
20) KV 4760	63.03	0.5	1070		Emisora Vargas	10.30–03.30
21) MW 4770	62.89	0.3	1460		Ondas del Caribe	11.30–03.30
22) LA 4780	62.76	1	690		La Voz de Carabobo	10.30–04.00
23) QN 4790	62.63	5	650		Ondas Portenas	10.25–04.00
24) ME 4800	62.50	10	1120		Ondas del Lago	10.30–03.30
25) MG 4810	62.37	1	700		R. Popular	10.30–03.30
26) RC 4820	62.24				La Voz de Apure	11.30–02.30
27) OA 4830	62.11	5	1000		La Voz del Táchira	10.30–03.30
28) OI 4840	61.98	1	1230		R. Valera	11.30–03.30
29) MS 4850	61.86	1	1090		R. Universo	10.30–03.30
30) PA 4860	61.75	1	1490		R. Yaracuy	10.30–03.30
15) KP 4870	61.60	2	1050		R. Tropical	
31) KF 4880	61.48	7.5	950		Ondas Populares	10.30–04.30
32) KB 4890	61.35	5	790		R. dif. Venezuela	10.30–04.30
33) KE 4900	61.22	1	860		R. Bolívar	10.30–03.30
34) MK 4910	61.10	1	1250		R. Cabilmas	10.30–03.30
35) KR 4920	60.99	7.5	750		R. Caracas	10.30–05.30
36) 4930	60.85		870		R. Junin	
37) MO 4940	60.73	2	1280		R. dif. Occidental	10.30–03.30
38) MM 4950	60.60	1	1210		R. Coro	10.30–03.30
39) QA 4960	60.48	1	1020		R. Sucre	10.30–03.30
40) LK 4970	60.36	10	560		R. Rumbos	09.30–04.30
41) MQ 4990	60.12	15	680		R. Barquisimeto	12.00–03.30
42) NK 5020	59.76		840		R. Cronos	
43) KO 5020	59.76	10	630		R. Nacional	
44) KM 5030	59.64	7.5	590		R. Continente	10.00–04.00
45) MA 5040	59.55	1	800		Ecos del Zulia	10.30–04.30
46) KD 5050	59.41	5	1100		R. Cultura	10.30–03.30
47) NL 6000	50.00		830		R. Miranda	
15) KO 6110	49.06	2	1050		R. Tropical	
43) KO 6170	48.62	10	630		R. Nacional	10.30–04.30
41) XJ 9510	31.55	15	680		R. Barquisimeto	10.30–03.30
*) MJ 9530	31.48	1			Various tr.	12.00–03.30
*) OM 9570	31.35	1/10			Various tr.	12.00–03.30
43) SC 9640	31.12	10	630		R. Nacional	irregular
40) LK 11725	25.59	1	**) R. Rumbos			
40) LK 11970	25.06	1	**) R. Rumbos			09.30–04.30

**) 560/670 kc/s. *) common freq. for 24), 45), 56).

**) common freq. for 7), 27).

Medium Waves: Call YV—, *)=Short Waves. *) also FM

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
40) LX 560d	100	1)	QB 940	1	67)	*	1200	
44) KL 590d	20	31)	KG 950	5	38)	MN	*1210	1
48) NO 610	10	13)	RB 960	10	28)	OH	*1230	0.25
43) KA 630	50	55)	ND 970	10	68)	LO	1240	1
23) OQ 650	10	6)	MQ 980	10	69)	NU	1250	
2) NH 660	50	56)	LR 990	10	34)	ML	*1250	1
44) LL 670	10	27)	OB 1000	10	70)	*	1270	
41) MR 680	15	57)	NB 1000	1	37)	MP	*1280	2
22) LB 690	1	39)	QT 1020	10	9)	LF	*1290	1
25) MH 700	10	58)	NZ 1030	0.3	71)	KH	1300	1
11) KY 710	10	14)	QC 1030d	2	72)	QY	1310	0.6
49) QR 720	10	59)	ON 1040	10	73)	OE	1320	1
50) NP 730	120	15)	KQ 1050	10	74)	*	1330	
35) KS 750	10	60)	LN 1060	0.3	75)	QU	1340	0.1
51) QQ 770	0.25	20)	KW 1070	1	76)	NH	1350	0.5
7) OD 780	10	61)	NG 1070	1	77)	LO	1370	1
32) KC 790	5	18)	QJ 1080	1	78)	QZ	1390	0.2
45) MB 800	10	29)	NT 1090	10	17)	MJ	*1400	0.6
52) LP 810	10	46)	KE 1100	10	79)	NV	*1410	
47) LT 830	10	62)	NN 1110	10	80)	NT	*1420	
42) MY 840	1	24)	MF 1120	10	10)	OF	*1420	0.5
16) LD 850	10	63)	NA 1130	0.3	81)	NJ	1430	0.5
33) QF 860	1	4)	TD 1130	10	82)	FR	1440	0.5
36) OL 870	10	3)	MU 1140		19)	OJ	*1450	1
5) KU 880	10	8)	MD 1150	1	21)	MV	*1460	1
53) LW 890	10	64)	QV 1170	2	83)	OP	*1480	
54) QX 920	1	65)	*	1180	84)	*	1490	
12) LJ 930	1	66)	RE 1190	0.25	30)	PB	*1490	

* under construction. 40) YVLL 10 kc/s: SSB (Single Side Band) every Sat. 21.30–22.30. Stations 6), 23), 29), 56), 62), 73) belong to 44).

Stations 1), 18), 39) belong to 40).

Short Waves:

- 1) Carupano. – F.P.L.: M.w. 10 kW.
- 2) C. A. R. Girardot, Maracay. Belongs to 35).
- 3) Carora. – L.P.: Dir.: C. González.

- 4) Ocumare del Tuy.
- 5) Oeste 10 (Cipreses a Miracielos), Caracas. Te.: 410320. - L.P.: Dir. Gen.: L. Raymonpi. Dir. Tec.: H. Decwitz. - D. PRGR.: English: 11.30-13.00, 23.00-23.30. Portuguese: 17.30-18.00. - V. by letter.
- 6) El Tigre (Anzoátegui).
- 7) Ca. 9-55, Apt. 152, San Cristobal. - L.P.: Dir. Tec.: J. A. Lugo Blanco. - D. PRGR.: W. 10.30-03.30. Sun. 11.30-01.30. - ANN.: "Desde San Cristobal, Venezuela, Patria del Libertador transmite Ecos del Torbes, su Emisora Predilecta, Estaciones YVOC, 3265 kc/s onda corta, 780 kc/s, onda larga, y YVOM 9570 kc/s banda internacional de 31 metros". - V. by letter.
- 8) Apt. 100, Maracaibo. - L.P.: Dir.: L. A. Goveá.
- 9) Apt. 4) Puerto Cabello. Te.: 3388. - L.P.: Dir. Gen.: S. Guevara V. Dir. Tec.: R. Betancourt. - FM: 90.5 mc/s, 102.2 mc/s.
- 10) Ca. Independencia 200, Trujillo. - L.P.: Dir.: P. J. Torres.
- 11) C. A. La Voz de la Patria, Caracas. - V. by letter.
- 12) Maracay. - L.P.: Owner: Armezzano & Vásquez.
- 13) Apt. 14, Maturín. - L.P.: Dir. Gen. & Dir. Tec.: L. J. Arreaza A. Mgr.: A. Andrea. - D. PRGR.: N.: 12.15, 16.30, 22.30, 02.30. - V. by letter. Re. in Sp., E.
- 14) Apt. 47, Ci. Bolívar. Te.: 20413. - L.P.: Dir. Gen.: E. Bellorin A. Dir. Tec.: J. Benito B. - D. PRGR.: N.: 11.30, 16.30, 23.00, 03.00 (BBC). Italian: D. 17.00-17.30. Music of USA (ann. in English): D. 21.00-21.30. - ANN.: "Con el avance económico y cultural de la Guayana transmite Ecos del Orinoco un punto de amistad en su dial, Emisoras YVOC 1030 kc/s onda larga, YVOD 3335 kc/s onda corta en banda tropical de 90 metros y YVOC-FM... en Ci. Bolívar, Venezuela, Patria de El Libertador". - V. by letter with card. Prgr. schedule free on request.
- 15) San Jacinto 9, Caracas. - ANN.: "En cualquier sitio R. Tropical y su gran Circuito Nacional R.C." - V. by QSL-card.
- 16) Valencia. - L.P.: Dir.: M. Aché.
- 17) Maracaibo. - L.P.: Dir.: P. Bermudez.
- 18) Apt. 27, Barcelona. - L.P.: as 1). - F.PL.: YVQJ 10 kW.
- 19) Apt. 74, Merida.
- 20) La Guaria. - L.P.: Dir.: P. Sosa Guzmán.
- 21) Punto Fijo. - L.P.: Dir.: R. Leyba.
- 22) Valencia. - V. by letter.
- 23) Ca. Libertad 46, Puerto La Cruz. Cable: Onport. - L.P.: Dir. Gen.: A. J. Isturiz R. Dir. Tec.: J. Rocha. - D. PRGR.: N.: 11.00, 16.45, 22.30, 04.00. English: D. 03.15. - ANN.: "Ondas Portañas - la emisora que impera en Oriente". - V. by letter. Prgr. schedule free on request.
- 24) Apt. 261, Maracaibo. Cable: Telezulia. - L.P.: Pres. & Owner: N. Vale Quintero. Mgr.: J. Matias R. Dir. Tec.: I. Salcedo Jr. - D. PRGR.: N.: W.: 12.00, 17.00, 02.30. Sun.: 17.30, 00.00. - ANN.: "Desde Tele-Radiópolis El más moderno centro de Radio y TV del país transmite Ondas del Lago YVME 1120 kc/s, YVME 4800 kc/s, en Maracaibo, Venezuela, Patria de El Libertador". - V. by QSL-card. R.p. Re. in Sp., E.
- 25) Apt. 347, Maracaibo. - L.P.: Dir.: J. Higuera M. - V. by QSL-card or letter.
- 26) Apt. 14, San Fernando Apure.
- 27) Apt. 37, San Cristobal. Te.: 11002. - L.P.: Dir. Gen. & Dir. Tec.: J. M. Diaz González. - D. PRGR.: N.: 11.30, 17.00, 24.00, 02.00, 03.00. - International Sec.: Dutch: Wed., Fri. 02.30-03.00. - ANN.: "La Voz del Tachira, transmitiendo en sus tres frecuencias populares YVOB, 1000 kc/s, YVOA 4830 kc/s y YVOM en 9570 kc/s. Al servicio de la cultura Nacional y especialmente del Tachira desde San Cristobal, Venezuela". - V. by QSL-card or letter. Re. in Sp., E.
- 28) Ca. Bolívar 54, Valera. - L.P.: Dir.: J. Febres J.
- 29) Apt. 76, Barquisimeto. - V. by letter.
- 30) San Felipe.
- 31) Edif. Radio Centro, Apt. de Correos 2057, Caracas. Te.: 418971. - L.P.: as 35). - V. by QSL-card.
- 32) Cipreses a Miracielos 1, Caracas. - D. PRGR.: German: Mo. 00.30-01.00. - ANN.: "Radiodifusora Venezuela - máxima en potencia y calidad - transmitiendo desde Caracas, Venezuela, cuna del Libertador".
- 33) Ca. D. Acosta 5, altos, Ci. Bolívar. - L.P.: Dir. Gen.: J. Antonio N. - D. PRGR.: N.: 11.30, 23.30.
- 34) Ca. Democracia, Caimanas. - V. by letter.
- 35) Coraven C. A., Barcenasa a Rio, Caracas. Cable: Coraven. Te.: 418971. - L.P.: Dir. Gen.: A. Espina. Mgr.: G. Tucker. Dir. Tec.: J. Marcano. - D. PRGR.: N.: Every half-h. from 11.30 to 03.30. - ANN.: "R. Caracas". - V. by QSL-card or letter. Re. in E., Sp.
- 36) Diócesis San Cristobal, San Cristobal. - L.P.: Dir.: P. Vivas Arellano.
- 37) Apt. 76, Barquisimeto. - V. by letter.
- 38) Comercio y Monzon 77, Coro. - L.P.: Dir. Gen.: R. Leyba. Dir. Tec.: V. J. Roca. - D. PRGR.: N.: 12.30, 16.30, 23.30. - Folklore Music: 10.30, 17.00. - INT.-SIG.: Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. - V. by letter.
- 39) Apt. 26, Cumana. - L.P.: as 1). - V. by letter.
- 40) Apt. 2618, Caracas. Te.: 415963. - L.P.: Pres.: F. Serrano M. Dir. Tec.: A. Gulbis. - D. PRGR.: N.: 10.30, 16.30, 21.30, 23.45, 04.00.

- ANN.: "Transmite Radio Rumbos, la emisora de Venezuela". - V. by QSL-card. - FM: YVLL-FM 99.08 mc/s 1 kW.
- 41) Apt. 576, Barquisimeto. - V. by QSL-card.
 - 42) Apt. 76, Barquisimeto.
 - 43) P.O. Box 3979, Caracas. Te.: 720661. - L.P.: Dir. Gen.: Dr. A. Pizani P. Dir. Tec.: L. Linares C. - D. PRGR.: English (on s.w. only): Sat.: 20.30-22.00, Mo. 02.30-04.00 (repeat). - ANN.: Sp.: "R. Nacional de Venezuela". E.: "This is the Venezuelan National Broadcasting Station". - V. by letter. QSL-card under preparation. Re. in Sp., E. Prgr. schedule in English and Spanish on request. - F.PL.: English prgr. daily.
 - 44) Circuito R. Continente, Apt. 866, Caracas. Cable: Continente. Te.: 543411. - L.P.: Pres.: J. F. Rodriguez. Vice Pres.: H. Requena C. Dir. Tec.: H. W. W. Walden. - D. PRGR.: N.: 10.30, 16.30, 02.30. - ANN.: "Transmite R. Continente, la emisora más potente del país YVKL 590 kc/s, YVKM 5030 kc/s, desde Caracas, Venezuela, America del Sur". - V. by letter. Re. in Sp., E. Prgr. schedule free on request.
 - 45) Apt. 37, Maracaibo. Cable: Ecozulia. - L.P.: Pres.: L. García N. Gen. Mgr.: A. Baralt L. - V. by QSL-card.
 - 46) Apt. 1931, Caracas. Te.: 41-09-76. - L.P.: Dir. Gen.: I. Neri. Dir. Tec.: A. Egge López. - D. PRGR.: N.: 10.45, 16.30, 22.30. - Italian: 01.30-03.30. - ANN.: "En al año... de nuestra independencia, desde Caracas, Venezuela, Cuna de El Libertador, transmite Radio Cultura...". - V. by QSL-card. - F.PL.: 20 kW tr.
 - 47) Los Teques. - L.P.: Dir.: A. Landaeta.
- Medium Waves:
- 48) R. Libertad, Caimanas.
 - 49) R. Cumana, Cumana.
 - 50) La Emisora de Maracaibo, Apt. 338, Maracaibo. Te.: 37983. - L.P.: Dir.: H. Ascanio Buroz.
 - 51) R. Puerto la Cruz, Puerto la Cruz.
 - 52) R. 810, Valencia.
 - 53) R. America, Valencia. - L.P.: Dir.: P. Bernardo Heredia.
 - 54) R. Nueva Esparta, Porlamar. - ANN.: "Radio Nueva Esparta, la emisora más poderosa del Oriente".
 - 55) R. Catatumbo, Maracaibo. - 56) R. Central, Maracay.
 - 57) R. Morón, Morón.
 - 58) R. Calendario, P.O. Box 789, Maracaibo. - L.P.: Dir.: M. N. de Rosales. - 59) R. Los Andes, Mérida.
 - 60) R. Guarico, San Juan de los Morros.
 - 61) R. Llagunillas, Llagunillas.
 - 62) R. Punto Fijo, Ca. Ecuador, Altos, Edif. Rofer, Punto Fijo. - L.P.: Dir.: C. Sabino G. Dir. Tec.: A. Gulbis. - D. PRGR.: 10.30-04.30. - Affiliated st. 40).
 - 63) Ondas de los Médanos, Coro. - 64) R. Acarigua, Acarigua.
 - 65) R. Perija, Machiques.
 - 66) R. Barinas, Barinas. - L.P.: Dir.: R. Sosa Rios.
 - 67) La Voz de Avila, Caracas.
 - 68) La Voz de la Victoria, La Victoria. - L.P.: Dir.: E. M. Marin.
 - 69) R. Caroni, San Félix.
 - 70) R. Tucupita, Tucupita. - L.P.: Dir.: S. Hernández.
 - 71) R. Crono Radar, Av. General Paéz, El Paraíso, Caracas.
 - 72) R. Guanara, Guanara. - 73) R. San Cristobal, San Cristobal.
 - 74) R. Reloj, Maracaibo. - 75) R. San Carlos, San Carlos. - 76) Ondas del Escalante, Santa Barbara del Zulia. - 77) R. dif. La Pascua, Ca. Real 17, Valle de La Pascua. - 78) R. Eduardo Méndez, Anaco. - 79) R. Güiría, Güiría. - 80) R. Caucagua, Caucagua. - 81) R. Progreso, Bachaquero. - 82) R. Orituco, Altagracia de Orituco. - 83) R. Tovar, Tovar. - 84) R. Boconó, Boconó.

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STANDARD FREQUENCY AND TIMESIGNAL STATIONS

The ordinary short-wave listener soon notices a specialized technical program of tones and time pulses usually received on carrier frequencies of 2, 5, 10 or 15 Mc and sometimes on 20 and 25 Mc, if he listens in that part of the spectrum. These signals are most useful to the non-specialist in obtaining accurate time, in checking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of short-wave reception. The forecasts are given by WWV, WWVH and JJJ for certain parts of the globe. Full detail and up-to-date information about all these services are published in the New Guide on short Wave Listening: HOW TO LISTEN TO THE WORLD.

R. STATION WWV AND WWVH (Go.)

ADDR.: Nat. Bureau of Standards Boulder Laboratories, Boulder, Colorado, USA - WWV: Box 331, Route 1, Lanham, Maryland. Te.: GR4-5722 - WWVH: Box 578, Puunene, Maui, Hawaii. - L.P.: Chief, R. Broad. Sec., R. Standards Laboratory; A. H. Morgan. Dir. Tec.: WWV: Fr. Sera. Dir. Tec.: WWVH: S. Katakara. Standard Radio Frequencies: WWV: 2500 kc/s 1 kW - 5000 kc/s 8 kW - 10000 kc/s 9 kW - 15000 kc/s 9 kW - 20000 kc/s 1 kW - 25000 kc/s 12 m 0.1 kW. The Broadcasts are continuous, night and day, exc. WWV is off the air 45-49 min. past each hr. WWVH: 5000 kc/s 2 kW - 10000 kc/s 2 kW - 15000 kc/s 2 kW. Continuous exc. for interruptions 00-04 and 30-34 min. past each hr. and from 19.00-19.34 daily.

Time signals: The audio frequencies at WWVH are interrupted precisely two minutes before each h. and successive five min. periods. They are resumed precisely on the hour and each five min. thereafter; they mark accurately the hour and the successive 5-min. periods.

ANN.: "National Bureau of Standards, WWV, when the tones returns Eastern Standard Time is... AM or... PM". - V. by QSL-card or letter - PUB.: Prgr. sched. on request. - F.P.L.: WWVH to be increased to 50 kW and later on to 300 kW; WWVB to 50 kW next year.

CV STANDARD FREQUENCY BROADCAST.

WWVL on 20 kc, 10 kW. The call sign WWVL is given in International Morse Code each hour and each 20 min. thereafter. Transmission continuous - WWVB on 60 kc 1.5 Watt, continuous.

NATIONAL PHYSICAL LABORATORY (Go.)

ADDR.: Teddington, Middlesex, Gt. Britain.

MSF Standard Frequency Service:

kc/s	m	kW	kc/s	m	kW
2500	120	0.5 continuous	10000	30	0.5 continuous*
60	5000	10 14.29-15.30	5000	60	0.5 continuous*

* exc. for break in transm. from 15-20 minutes past each h.

ANN.: Call sign 3 times in slow Morse. "This is MSF, Rugby transmitting standard frequencies on 2500, 5000 and 10000 kc/s, the frequencies being maintained constant within 5 parts in 10⁹ by reference to an atomic standard". - V. by letter.

ROYAL GREENWICH OBSERVATORY

ADDR.: Time Dept., Herstmonceux Castle, Hailsham, Sussex, England.

The international time signals of the Royal Greenwich Observatory are radiated as follows: 10.00 and 18.00 on 10332.5 kc/s (GPB30), 17685 kc/s (GIC37) and 16 kc/s (GBR). The frequencies are changed at irregular intervals depending on the ionospheric predictions.

TIME SIGNAL FROM DOMINION OBSERVATORY.

ADDR.: Dominion Observatory, Dept. of Mines and Technical Surveys, Carling Ave., Ottawa, Ontario. Te.: 2-8211, 10 c.4-5606. - L.P.: Dir. Adm.: Dr. C. S. Beals. Dir. Tec.: M. M. Thompson. STATIONS: CHU 3330 kc/s 90.09 m 0.75 kW - 7335 kc/s 40.90 m 3 kW - 14670 kc/s 20.45 m 3 kW - D.PRGR.: 24 h. Time Signals only, in voice and second pulses. - ANN.: Hours and minutes announced during the last 10 seconds of each minute: "Dominion Observatory, Canada, Eastern Standard Time... hours... minutes". - V. by QSL-card. - PUB.: Prgr. sched. free on request.

STATION JJJ

ADDR.: R. Research Laboratories, Koganei-C, Tokyo, Japan.

2500 kc/s 1 kW 06.59-22.59
5000 kc/s 1 kW 24 h. a day
15000 kc/s 1 kW 24 h. a day
2500 off the air 29-39 min. past each h. - 5000 Mo. only, interrupted 09-19, 29-39, 49-59 min. past each h., 15000 daily 2100-1100 exc. for interruptions 29-39 min. past each h. - V. by QSL-card.

HBN NEUCHÂTEL OBSERVATORY

ADDR.: Neuchâtel, Switzerland. Cable: Observatoire. Te.: (038) 5 1238. - L.P.: Dir.: J. Bonanomi, W. Schuler. Standard Frequencies: 2500 kc/s: Sat. 07.05-Tues. 07.00, Wed. 07.05-Fri. 07.00. 5000 kc/s: Tues. 07.05-Wed. 07.00, Fri. 07.05-Sat. 07.00.

STATION LOL

ADDR.: Observatorio Naval de la Secretaria de Marina Costanera Sud, Buenos Aires. - L.P.: Dir. Gen.: J. Marpegán.

Standard Freq. and Time Signals: LOL:

5000 kc/s 2 kW 10000 kc/s 2 kW 15000 kc/s 2 kW
D. exc. Sun. and holidays: 11.00-12.00, 14.00-15.00, 17.00-18.00, 20.00-21.00, 23.00-24.00.
Schedule: 4 min. dash (1000 or 440 c/s alternately) beginning at 00.00, 00.05, 00.10 etc. Then 3 x LOL in morse followed by ann.

STANDARD FREQUENCY STATION OMA

ADDR.: Budecska 6, Praha 2, Czechoslovakia.

50 kc 5 kW: 24 h. - 2500 kc 1 kW: 24 h. - 3170 kc 8 kW: 18.00-24.00.

NATIONAL RESEARCH CENTRE OF TELECOMMUNICATIONS

ADDR.: Centre National d'Etudes des Télécommunications, Laboratoire de Bagnaux, 196, rue de Paris, Bagnaux (Seine), France. FFH: 2500 kc/s 0.25 kW: Tues. & Fri. 08.30-16.30.

REP. OBSERVATORY-SOUTH AFRICA

ADDR.: The Director, Republic Observatory, Johannesburg.

ZUO: 5000 kc/s 4 kW. - 10 000 kc/s 0.25 kW.
24 h. per day, exc. for interruptions 15 to 25 min. past each h.

INTERNATIONAL WATER

RADIO MERCUR (Comm.)

ADDR.: Adv. Dept.: Sortedam Dossering 55, Copenhagen Ø, Denmark. Te.: LU 5710; Adm. and Comm. Studios: "Radio Mercur City", Ravnsborggade 3, Copenhagen N. Prgr. Dept.: Adolphsvej 61, Gentofte - L.P.: Dir. Adm. Dept.: Sv. Felby. Dir. Tec.: W. Petersen. Dir. of Prod.: Ole V. Lassen.

D. PRGR.: 88.0 mc/s 20 kW: W.: 04.55-10.00, 13.00-23.00. Sat., Sun. 04.55-24.00.

Stereo: Tues., Thurs.: 13.00-14.00 (demonstr.prgr.), Sat. 22.15-23.00 (dancing music), Sun. 12.00-13.00 (classical music).

ANN.: "De lytter til Radio Mercur" (You are listening to Radio Mercur). - INT.-SIG.:



V. by QSL-card.

RADIO DCR (Comm.)

ADDR.: Radiohuset, Hvidovre, Denmark. - L.P.: Dir.: Benny Knudsen. Dir. Adv. Dept.: Vagn Jensen. Dir. of Prgr.: Hans Vangkilde. 94 mc/s 5 kW: Mo.-Fri.: 06.00-09.00, 14.30-22.00. Sat. 06.00-09.00, 13.00-01.00. Sun. 08.00-23.00.

RADIO NORD (Comm.)

ADDR.: Radio Reklam Produktion, Kammakargatan 46, Stockholm C. Sweden Cable: "Kotab". Te.: 231290. - L.P.: Dir.: J. S. Kotschack. Prgr. Mgr.: G. Sturmard. Dir. Tec.: P. Lönndal. STATION: m/s "Bon Jour" anchored off Stockholm (archipelago). 602 kc/s 498.4 m 20 kW: D. 24 h. exc. Mo. 23.00-05.00 in Swedish. N.: 05.15, 06.15, 07.15, 08.15, 11.15, 12.15, 14.15, 15.15, 16.15, 17.15, 18.15, 20.15, 21.15, 22.15, 23.15, 00.15. - ANN.: Identification every h. on the h. and before newsbulletin. - V. by QSL-card.

RADIO VERONICA (Comm.)

ADDR.: P.O. Box 218, Hilversum, Holland. STATION: A ship west of the Hague: 1562 kc/s 192.1 m 15 kW: D. 08.00-19.00. - ANN.: "Hier R. Veronica op 192 m" or "Hier R. Veronica waar muziek in zit". - V. by letter.

ESPERANTO

AUSTRIA: Österreichischer Rundfunk: Tues. 16.50 (2nd Prgr.).

BRAZIL: R. Progresso, São Paulo: Thurs. 23.30 - R. Dif. Taubaté: Sun. 16.00. - R. Dif. Educativa: Sat. 18.30. - R. Jornal do Brasil: Mo., Wed., Fri.: 11.00.

BULGARIA: R. Sofia: Sun. 19.00, 22.30.

FRANCE: R. diff. Télévision Française: Thurs. 08.35 (Prgr. National-France III).

GUATEMALA: R. Nacional: Wed. 23.00.

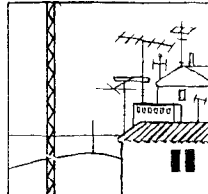
HOLLAND: First Mo. of the month 22.40 (Hilversum I or II): Every Fri. 22.00 (Hilversum I or II).

ITALY: R. Roma: Tues., Wed., Fri.: 17.55.

POLAND: Polskie Radio: D. 15.30.

SWITZERLAND: Swiss Short Wave Service: Mo., Wed. 12.30; Thurs. Sat.: 21.15.

WORLD TELEVISION



The principal CCIR* television systems:

Definition refers to the standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines, 625 lines (OIRT**) and 819 lines respectively.

	CCIR/Systems*			
Number of lines per picture	405	525	625	819
Video bandwidth (Mc/s)	3	4	5	10.4
Channelwidth (Mc/s)	5	6	7	14
Sound carrier relative to vision carrier	÷3.5	÷4.5	÷5.5	÷11.15
(Sound carrier relative to edge of channel)	÷0.25	÷0.25	÷0.25	÷0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s)	10.125	15.750	15.625	20.475
Field frequency (c/s)	50	60	50	50
Picture frequency (c/s)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

* The International Radio Consultative Committee.

**The characteristics are the same as 625 lines exc. for a difference in bandwidth: video bandwidth 6 Mc/s, channelwidth 8 Mc/s, sound carrier relative to vision carrier ÷ 6.5 Mc/s.

The following pages give you the data for the different TV stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: American, B: British etc.) and the figure is the channel number.

The power for vision and sound are indicated by a fraction, the numerator indicating the number of kW (ERP) for vision and the denominator for sound, for example 6/1.5 means vision 6 kW ERP and sound 1.5 kW ERP.

Differences in Belgian TV from resp. CCIR 625 and French 819:

	CCIR		Belgian		French		Belgian	
	625	625	819	819	819	819	819	819
Video bandwidth (Mc/s)			10.4	5				
Channelwidth (Mc/s)			14	7				
Sound relative to vision			÷11.15	÷5.5				
Sound relative to edge of ch.			÷0.10	÷0.25				
Vision modulation	Negative		Positive					
Level of black as percentage of peak carrier	75	25						
Sound modulation	FM	AM						

United States of America. Number of lines: 525.

ch	Mc/s	ch	Mc/s	ch	Mc/s
A-2	55.25/ 59.75	A-30	567.25/571.75	A-57	729.25/733.75
A-3	61.25/ 65.75	A-31	573.25/577.75	A-58	735.25/739.75
A-4	67.25/ 71.75	A-32	579.25/583.75	A-59	741.25/745.75
A-5	77.25/ 81.75	A-33	585.25/589.75	A-60	747.25/751.75
A-6	83.25/ 87.75	A-34	591.25/595.75	A-61	753.25/757.75
A-7	175.25/179.75	A-35	597.25/601.75	A-62	759.25/763.75
A-8	181.25/185.75	A-36	603.25/607.75	A-63	765.25/769.75
A-9	187.25/191.75	A-37	609.25/613.75	A-64	771.25/775.75
A-10	193.25/197.75	A-38	615.25/619.75	A-65	777.25/781.75
A-11	199.25/203.75	A-39	621.25/625.75	A-66	783.25/787.75
A-12	205.25/209.75	A-40	627.25/631.75	A-67	789.25/793.75
A-13	211.25/215.75	A-41	633.25/637.75	A-68	795.25/799.75
A-14	471.25/475.75	A-42	639.25/643.75	A-69	801.25/805.75
A-15	477.25/481.75	A-43	645.25/649.75	A-70	807.25/811.75
A-16	483.25/487.75	A-44	651.25/655.75	A-71	813.25/817.75
A-17	489.25/493.75	A-45	657.25/661.75	A-72	819.25/823.75
A-18	495.25/499.75	A-46	663.25/667.75	A-73	825.25/829.75
A-19	501.25/505.75	A-47	669.25/673.75	A-74	831.25/835.75
A-20	507.25/511.75	A-48	675.25/679.75	A-75	837.25/841.75
A-21	513.25/517.75	A-49	681.25/685.75	A-76	843.25/847.75
A-22	519.25/523.75	A-50	687.25/691.75	A-77	849.25/853.75
A-23	525.25/529.75	A-51	693.25/697.75	A-78	855.25/859.75
A-24	531.25/535.75	A-52	699.25/703.75	A-79	861.25/865.75
A-25	537.25/541.75	A-53	705.25/709.75	A-80	867.25/871.75
A-26	543.25/547.75	A-54	711.25/715.75	A-81	873.25/877.75
A-27	549.25/553.75	A-55	717.25/721.75	A-82	879.25/883.75
A-28	555.25/559.75	A-56	723.25/727.75	A-83	885.25/889.75
A-29	561.25/565.75				

United Kingdom and Ireland. Number of lines: U.K. 405; Ireland 625, partly 405.

ch	Mc/s	ch	Mc/s	Ireland (partly)	
B-1	45.00/ 41.50	B-8	189.75/186.25	625 lines:	
B-2	51.75/ 48.25	B-9	194.75/191.25	ch	Mc/s
B-3	56.75/ 53.25	B-10	199.75/196.25	C-1	42.50/ 48.50
B-4	61.75/ 58.25	B-11	204.75/201.25	C-2	175.25/181.25
B-5	66.75/ 63.25	B-12	209.75/206.25	C-3	191.25/197.25
B-6	179.75/176.25	B-13	214.75/211.25	C-4	207.25/213.25
B-7	184.75/181.25	B-14	219.75/216.25	C-5	215.25/221.25

Continental Europe (excl. France, Monaco, Italy and OIRT members).

ch	Mc/s	ch	Mc/s	ch	Mc/s
E-2	48.25/ 53.75	E-5	175.25/180.75	E-9	203.25/208.75
E-2A	49.75/ 55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/ 60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/ 67.75	E-8	196.25/201.75	E-12	224.75/229.75

France, Monaco. Number of lines: 819

ch	Mc/s	ch	Mc/s	ch	Mc/s
F-2	52.40/ 41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/ 54.40	F-8	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8A	186.55/175.40	F-12	212.85/201.70
F-6	173.40/162.25	F-9	190.30/201.45		

Italy. Number of lines: 625

ch	Mc/s	ch	Mc/s	ch	Mc/s
A	53.75/ 59.25	D	175.25/180.75	G	201.25/206.75
B	62.25/ 67.75	E	183.25/189.75	H	210.25/215.75
C	82.25/ 87.75	F	192.25/197.75		

USSR and OIRT members. Number of lines: 625. Channel width: 8 Mc/s. Video bandwidth 6 Mc/s.

ch	Mc/s	ch	Mc/s
OIRT-I	49.75/ 56.25	OIRT-VII	183.25/189.75
OIRT-II	59.25/ 65.75	OIRT-VIII	191.25/197.75
OIRT-III	77.25/ 83.75	OIRT-IX	199.25/205.75
OIRT-IV	85.25/ 91.75	OIRT-X	207.25/213.75
OIRT-V	93.25/ 99.75	OIRT-XI	215.25/221.75
OIRT-VI	175.25/181.75	OIRT-XII	223.25/229.75

Australia. Number of lines: 625

ch	Mc/s	ch	Mc/s	ch	Mc/s
0	46.52/ 51.75	5	102.25/107.75	9	196.25/201.75
1	57.25/ 62.75	5A	138.25/143.75	10	209.25/214.75
2	64.25/ 69.75	6	175.25/180.75	11	216.25/221.75
3	86.25/ 91.75	7	182.25/187.75		
4	95.25/100.75	8	189.25/194.75		

Japan. Number of lines: 525.

ch	Mc/s	ch	Mc/s	ch	Mc/s
J-1	91.25/ 95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75		

Television on VHF/UHF (Band IV/V) Europe.

VHF/UHF television systems for Band IV/V adopted by the European Broadcasting Conference Stockholm 1961 are 625-lines systems only. The can be grouped into 5 categories, here called Standards G to L:

Standard	Video Bandwidth (Mc/s)	Picture/ Sound Separation (Mc/s)	Vestigial Sideband (Mc/s)	Picture modulation	Sound modulation	Frequency of chrominance subcarrier (Mc/s)	Power ratio picture/ sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75 *	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

* Administrations proposing this Standard are studying the possibility of extending the vestigial sideband to 1.25 Mc/s.

Ch	Vision Mc/s	Ch	Vision Mc/s	Ch	Vision Mc/s	Ch	Vision Mc/s
21	471.25	33	567.25	45	663.25	57	759.25
22	479.25	34	575.25	46	671.25	58	767.25
23	487.25	35	583.25	47	679.25	59	775.25
24	495.25	36	591.25	48	687.25	60	783.25
25	503.25	37	599.25	49	695.25	61	791.25
26	511.25	38	607.25	50	703.25	62	799.25
27	519.25	39	615.25	51	711.25	63	807.25
28	527.25	40	623.25	52	719.25	64	815.25
29	535.25	41	631.25	53	727.25	65	823.25
30	543.25	42	639.25	54	735.25	66	831.25
31	551.25	43	647.25	55	743.25	67	839.25
32	559.25	44	655.25	56	751.25	68	847.25

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrier frequency given above. This figure appears in the list giving details about systems G, H, I, K, and L.



EUROPE



★ AUSTRIA ★

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

FL: By license payments and adv. – AD: W. 18.30, 18.55, 19.20.
 ADDR.: Television Dept., Schellinggasse 4, Wien I. Cable: Fernsehen.
 Te.: 523627. Studio: Maxingstr. 13a, Wien XIII. – Singrienergasse 21,
 Wien XII – Columbia-studio, Rothgasse 9, Wien I. – L.P.: Dir. Gen.:
 J. Scheidl. Dir. TV: G. Freund. Dir. Tec., Vice-Dir. Gen.: Dipl. Ing.
 W. Fuchs.

STATIONS:	ch. kW			ch. kW	
Jauerling	E2 60/12	H	Griesfeld ¹	E8 3/0.6W	
Veitsch ¹	E3 0.01/0.002		Freinberg ¹	E9 10/2W	
Patscherkofel	E4 30/6	H	Mugl	E9 20/4	
Höfener Alm	E5 3/0.6W		Sonnwendstein	E10 5/1	
Schmittenhöhe ¹	E6 0.05/0.01		Pyramidenkogel	E10 30/6	
Kahlenberg	E5 60/12	H	Hahnbaum ¹	E10 0.1/0.02	
Pfänder	E5 80/16	H	Schladming ¹	E11 0.0001/	
Heuberg ¹	E6 0.08/0.016			0.0002	
Lichtenberg	E6 60/12	H	Grünberg ¹	E11 0.005/0.001	
Schöckl	E7 60/12	H	Polster ¹	E11 0.01/0.002	
Hartberg ¹	E7 0.03/0.006		H. Kaibling	E11 10/2	
Lorenzenberg ¹	E6 0.01/0.002		Baumgarten ¹	E12 10/2W	
Gaisberg	E8 60/12		Kahlenberg II	E27 20/4**	
Hieflau ¹	E8 0.5/0.1W				

¹ Frequency-changer.

D. PRGR.: Sun., Wed.: 16.00–18.00, 18.30–21.00. Other days: 18.30–
 21.00. Testprgrs.: Kahlenberg II Mo., Wed., Fri. 17.30–19.00.

★ BELGIUM ★

RADIODIFFUSION-TELEVISION BELGE (RTB) –

BELGISCHE RADIO EN TELEVISIE (BRT) (Go.)

FL: By state grant-in-aids. – ADDR.: RTB or BRT, Place Eugène
 Flagey, Brussels 5. Cable: INR- or NIR-TV. Te.: French 48.81.20,
 Flemish 48.64.30. – L.P.: French Prgr.: Dir. L. P. Kammans. Flemish
 Prgr.: Dir. B. Janssens. Int. Rel.: Dir. L. Wallenborn.
 French Prgr.: Def. 819 Flemish Prgr.: Def. 625.

	ch.F kW			ch.F kW	
Ougrée	3 100/25	H	Bruxelles	10 100/25	H
Bruxelles			(Wavre)	2 100/25	H
(Wavre)	8 100/25	H	Aalster	2 100/25	H
Anlier	11 10/2.5	H	Antwerp	2 100/25W	V*
Bruxelles	7 5/1.25W	V*	Brussel	11 5/1.25W	V*
Anseremme	5 10/2.5W	V*			
Bouillon	9 10/2.5W	V*			

* Satellites tr.'s.
 D. PRGR.: Mo.–Fri.: 17.30–21.30. Sat., Sun.: 14.00–22.00.

★ BULGARIA ★

BULGARIAN TELEVISION (Go.)

ADDR.: G. Genov St. 7, Sofia. Cable: TVBULGAR. Te.: 7-08-71.
 L.P.: Mgr.: V. Baev. Dir. Prgr.: B. Petrov. Art Dir.: A. Valtshanov.
 Dir. Tec.: G. Fratev.
 STATION: Ch. OIRT-VII 0.5/0.250 kW.
 D. PRGR.: Mo., Wed., Sat. 17.00–19.30.

★ CZECHOSLOVAKIA ★

ČESKOSLOVENSKÁ TELEVIZE

AD.: Approx. 20 min. weekly. – ADDR.: Československá televize,
 Nám. M. Gorkého 9, Praha I. Cable: Televize Praha. Te.: 221247.
 L.P.: Dir. Gen.: A. Hradecký. Dir. Prgr.: Dr. V. Feldstein. Dir. Prgr.
 Produce: J. Beneš. Dir. Tec.: F. Svejkský. Dir. Production: J.
 Břinčil. Dir. For. Rel.: L. Kubíček. Dir. Slovak TV (Bratislava): J.
 V. Vrábec.

STATIONS: Ch. OIRT Polarisation: H.
 Praha ch. 1 150/30 kW – Ostrava ch. 1 100/20 kW – Bratislava ch. 2
 100/20 kW – Brno ch. 9 100/20 kW – B. Bystrica ch. 7 100/20 kW –
 Pardubice ch. 6 100/20 kW – Košice ch. 6 100/20 kW – Č. Budejovice
 ch. 12 100/20 kW – Usti n.L. ch. 12 100/20 kW – Pízen ch. 10 100/20
 kW – Kladno/Karlovy Vary ch. 7 0.6/0.12 kW.
 D. PRGR.: Mo. 17.00–21.30 (or 22.00), Tues. 16.30–21.30 (or 21.45),
 Wed. 14.00–15.30, 17.45–21.30 (or 22.00), Thurs. 09.00–11.00, 17.00–
 21.30 (or 21.40), Fri. 14.00–15.30, 17.45–21.45, Sat. 14.00–17.00,
 17.00–22.30 (or 23.00), Sun. 08.30–11.30, 14.00–16.00, 17.45–21.45
 (or 22.00).

The unplanned sport and topical events are transmitted at other times
 than those mentioned above.

★ DENMARK ★

RADIO DENMARK (Go.)

FL: By license payments. – ADDR.: Television Service Radio
 Denmark, Radjohuset, Rosenørnsallé, Copenhagen. Cable: Danradio.
 Te.: C. 647. – L.P.: Dir. Gen.: Hans Sølvhøj. Dir. Prgr.: J. Fr. Lawaetz.
 STATIONS: Po.: H., Ch. E.

	ch. kW		ch. kW		ch. kW
Funen	3 10/3	Bornholm	5 10/3	Århus	8 10/3
Copenhagen	4 10/3	South Seeland	6 60/20	West Jutland	10 60/2
Ålborg	5 10/3	South Jutland	7 60/20		

D. PRGR.: 19.00–approx. 21.00. Childrens H.: Mo., Tues. 16.00–
 16.30, Thurs., Fri. 14.30–15.00, Sat. 16.30–17.00.

★ FINLAND ★

SUOMEN TELEVISIO (Go. – limited comm. operation)

FL: By license payments and limited earnings from adv.
 ADDR.: Pasila, Jimala, Helsinki. Cable: Yleisradio. Te.: 413355. –
 L.P.: See Sound Broadcasting.
 STATIONS: ch.E kW/W Po. ch.E kW/W Po.
 Hämeenlinna 5 5/1W H Tampere 8 80/16 H
 Karhula 5 400/80W V Lahti 9 40/8 H
 Kouvola 5 5/1W H Pori 9 200/40W H
 Lapua 5 80/16 H Joutseno 9 20/4 H
 Rauma 5 10/2 H Tammela 10 200/40W H
 Tammisaari 5 150/30W H Jyväskylä 11 20/4 H
 Helsinki 6 10/2 H Lohja 11 5/1W H
 Mikkelä 6 100/20W V Riihimäki 11 5/1W H
 Kuopio 7 45/9 H Mäntyhärju 11 1.5/0.3 H
 Turku 7 45/9 H

D. PRGR.: Tues., Wed., Fri. 10.00–10.30. D. approx. 17.00–20.00. –
 Projected station: Yläjärvi ch. E8 100/20 kW (to replace Tampere).

OY MAINOS-TV-REKLAM AB:

An independent TV company for commercial prgr., to which the
 Finnish TV rents out its studios and channels. The daily advertising is
 made only in the beginning and at the end of the programmes.

L.P.: P. Hanski.

OY TESVISIO AB (Indep.)

FL: By adv. Commercial (spots) up to 10% (limited number of
 sponsored prgrs.). Adv. are placed between the various prgr.'s and
 Tesvisio transmit up to seven min. of commercial spots per h.
 ADDR.: Ratakatu 9, Helsinki. Cable: Tesvisio. Te.: 50233. – L.P.:
 Dir. Gen.: V. J. Nurminen. Dir. Prgr.: K. Ehder. Dir. Tec.: K.
 Teräsvuo.

STATION: TES, Helsinki, ch. E8 3/0.6 kW H. – D. PRGR.: Mo.
 17.15–19.20, Tues. 17.25–20.00, Wed. 15.25–20.10, Thurs. 15.30–20.10,
 Fri. 17.25–19.50, Sat., Sun. 07.30–09.00, 14.00–16.00.

★ FRANCE ★

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)

ADDR. and L.P.: See Sound Broadcasting.

Regional stations:	Powers Sound = 1/4 Vision powers indicated.	
	ch.F kW	ch.F kW
1) Bastia	2 0.05V	18) Niort 7 20V
2) Caen	2 20H	19) Lille 8A 20H
3) Limoges	2 20H	20) Paris (Tour
4) Troyes	2 20H	Eiffel) 8A 20H
5) Ajaccio	4 0.05H	21) Marseille 8 20H
6) Nantes	4 20V	22) Mulhouse 8 20H
7) Besançon	4 3V	23) Brest 8 5H
8) Carcassonne	4 0.5V	24) Bourges 8 5H
9) Reims	5 10V	25) Bordeaux 10 0.5H
10) Rennes	5 20H	26) Dijon 10 0.5V
11) Strasbourg	5 3H	27) Grenoble 10 0.05H
12) Toulouse	5 0.5H	28) Rouen 10 10H
13) Cannes	6 3V	29) Toulouse 10 0.05H
14) Clermont-Ferrand	6 10V	30) Amiens 11 20V
15) Metz	6 10H	31) Aurillac 11 0.5V
16) Le Havre	7 0.05H	32) Le Mans 12 10V
17) Nancy	7 0.05V	33) Lyon 12 20H
		34) Perpignan 12 0.05H

Relay stations: The figures refer to the regional stations above. Powers
 are indicated in Watts.

2) Cherbouurg ch. 12 500 W, H; Lisieux ch. 6 3 W, H. – 3) Cognac
 ch. 5.03 W, V; Périgueux ch. 12 3 W, H. – 9) Mezieres ch. 8A 500 W,
 V; Bar-le-Duc ch. 12 3 W, V; Revin ch. 9 3W, H. – 10) Vannes ch. 12
 500 W, H; Perros-Guirec ch. 12 3 W, H. – 12) Lourdes ch. 11 3 W, H;
 Luz ch. 12 0.3 W, V; Baresges ch. 8.03 W, H; Argelès ch. 9 3W, V;
 Villeneuve ch. 12 3 W, H; La Rhume ch. 9 40 W, V; Arreau ch. 12
 3 W, H (+Cazaux ch. 8 3 W, H; Saint Lory ch. 6.03 W, V; Arrens
 ch. 12 0.3 W, H; Mauleon ch. 10 3 W, H. – 13) Nice ch. 11 50 W, V;
 Draguignan ch. 11 0.3 W, V; Menton ch. 11 3 W, V. – 14) Autun
 ch. 11 3 W, V; Pontaumur ch. 11 0.3 W, H; Ambert ch. 9 3 W, V. –
 15) Epinal ch. 12 40 W, V; Longwy ch. 12 40 W, V; Saint-Die ch. 12
 3 W, H; Sarreguemines ch. 12 0.3 W, V; Vittehl ch. 12 3 W, H; Verdun
 ch. 12 3 W, H; Villerupt ch. 11 3 W, H; Gerardmer ch. 12 3 W, H;
 Remiremont ch. 11 3 W, H; Saint Mihiel ch. 12 3 W, H; Saint-Avold
 ch. 13 3 W, V; Algrange ch. 12 3 W, H. – 19) Boulogne ch. 4 40 W, V. –
 21) Toulon ch. 11 40 W, H (+Myre ch. 4 40 W, V); Ales ch. 11 3 W,
 V; Digne ch. 11 3 W, V; Gap ch. 11 40 W, V; Apt ch. 11 0.3 W, H;
 Nyons ch. 11 0.3 W, H; Lodeve ch. 11 0.3 W, H; Briançon ch. 12 3 W,
 V. – 24) Auxerre ch. 6 3 W, H; La Bourboule ch. 9 0.015 W, V. –

25) Arcachon ch. 3 W, V. - 26) Besancon ch. 5 3 W, H; Lons-le-Saunier ch. 6 3 W, H; Salins ch. 5 3 W, H; Pontarlier ch. 5 3 W, V. - 28) Fe-camp ch. 6 3 W, H; Bolbec ch. 5 3 W, H; Lillebonne ch. 8 3 W, V. - 29) Foix ch. 6 0.3 W, V. - 30) Eu ch. 6 3 W, V; Champs-sur-Tarentaise ch. 5 0.3 W, H. - 31) St. Geniez d'Olt ch. 7 0.3 W, H. - 3) Annecy ch. 8 3 W, H; Chamonix ch. 6 3 W, H; Gex ch. 7 40 W, V; Megeve ch. 7 10 W, V; St. Etienne ch. 8 40 W, H; St. Gervais ch. 9 10 W, H; St. Laurent-du-Pont ch. 8 0.3 W, H; Voiron ch. 7 3 W, V; Die ch. 7 0.3 W, H; Lyon ch. 5 500 W, H (+ Tarare ch. 9 3 W, H); Le Puy ch. 5 3 W, H; Chambéry ch. 6 40 W, V; Nantua ch. 6 3 W, H; St. Peray ch. 7 0.3 W, H; Saint Anthème ch. 7 0.3 W, H; Murat ch. 8 0.3 W, H.

D. PRGR.: Paris (relayed by Dijon, Lille, Lyon, Marseille, Mulhouse, Nancy, Nantes, Rennes, Rouen, Strasbourg): Sun.: 09.00-21.45. W.: 11.30-12.30, 17.30-22.00 or 22.30.

Projected Stations: Cahors ch. F8 3 W, H; La Mure ch. F8 3 W, H; Le Creuset ch. F8 3 W, H; Munster ch. F6 3 W, H; Nolay ch. F5 3 W, H; Sarlat ch. F6 3 W, V; Schmirmeck ch. F7 3 W, V and Vienne ch. F5 0.3 W, V before end of 1961. Gex ch. F7 3 kW, V (in 1962).

Radio relay links between: Paris-Lille, Paris-Rouen-Le Havre-Caen-Rennes-Nantes, Paris-Reims-Metz(-Luttange)-Nancy-Strasbourg-Mulhouse, Paris-Perreux-Dijon-Lyon-Marseille-Cannes, Lyon-Clermont Ferrand-Grenoble-St. Etienne, Paris-Perreux-Bourges-Limoges and Bourdeaux-Toulouse-Pic du Midi-Metz-Luxembourg, Dabo-Hornisgrinde (Germany), Lille-Cassel-Dover.

The information concerns France Metropolitan only. For information about Algeria: See Algeria.

★ GERMANY ★ GERMAN FEDERAL REPUBLIC

A common prgr. is being broadcast throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition a number of reg. broadcasts are transmitted by each of the broadcasting organizations.

Community television prgr. daily approx.: W.: 16.00-17.00, 19.00-21.00. Sun. additionally 11.00-14.00 and longer afternoonprgrs. in case of sport-events. Testtr. approx. 08.00-16.00.

ADDR.: Deutsches Fernsehen, Koordinationsbüro, München 23, Leopoldstr. 10 II. - L.P.: Coordinators of German TV: Dr. Karl Mohr (1st Prgr.), Dr. H.-J. Lange (2nd Prgr.). - FI.: By license payments and adv. - AD.: Each of the German broadcasting organizations fix a price for adv. in relation to the number of viewers in their respective areas. The approx. transmission times for adv. are at present as follows: BR: W. 17.45-19.00 - HR: 17.45-18.00, 18.25-19.00 - NDR: W. 18.25-19.00; also 18.00-18.05 - R. Bremen: See Sound Broadcast. - SDR: W. 18.25-19.00 - SWF: W. 18.25-19.00 - Saar-ländischer Rundfunk: W. 18.25-19.00 - Sender Freies Berlin: W. 45 17.-19.00 - WDR: W. 18.15-19.00.

BAYERISCHER RUNDUNK (Anstalt des öffentlichen Rechts)

FI.: By license payments. - AD.: D. (exc. Sun.) max. 12 mins. **ADDR.:** Fernsehdirektion des Bayerischen Rundfunks, Rundfunk-platz 1, Funkhaus, München 2. **Studio:** Florianmühlstr., München-Freimann. - L.P.: Intendant des Bayerischen Rundfunks: Christian Wallenreiter, Dir. TV: Dr. Clemens Münster, Dir. Adm.: H. Spies, Dir. Tec.: Dr. F. Daser.

STATIONS	ch. E	kW	ch. E	kW
Grünten	2	100/20H	Brotjackelriegel	7 100/20H
Kreuzberg	3	100/20V	Wendelstein	10 100/20H
Ochsenkopf	4	100/20V	Würzburg	10 1/0.2H
Dillberg	6	100/20H	Hohenpeissenb.	25 10/2H

Low power stations

ch. E	Watts	ch. E	Watts
Bad Reichenhall	5 5/11H	Bad Berneck	6 1/5.0/3 V
Bad Tölz	5 25/5V	Kreuzeck	10 2/0.4V
Eichstätt	5 5/11H	Kulmbach	10 2/0.4H
Granau	5 1/0.2H	Wunsiedel	10 10/2H
Landshut	5 4/0.8V	Bad Kissingen	11 5/1H
Passau	5 20/4V	Bamberg	11 20/4H
Rauschberg	5 3/0.6V	Berchtesgaden	11 2/0.4H
Tegernsee	5 2/0.4H	Füssen	11 10/2H
Hohe Linie	5 50/10V	Neustadt/A.	11 2.5/0.5H
Kelheim	5 10/2H		
Rothenburg	5 2/0.4H		

Projected st.: Hoher Bogen UHF-band 5.

Moreover numerous satellite st.'s.

Testtransmissions: 09.00-11.00, 12.00-15.50, Sat. 12.00-15.50.

HESSISCHER RUNDUNK (Anstalt des öffentlichen Rechts)

ADDR.: Bertramstrasse 8, Frankfurt am Main. Cable: Hessfunk. Te.: 59051. - L.P.: Intendant: E. Beckmann. Dir. TV: W. Hess. Dir. Tec.: Dr.-Ing. F. Miséré. TV Play: Dr. R. Trachler. TV Entertainment: Dr. A. Zeckl. TV News (Hessenschau): W. Hank.

STATIONS: Feldberg ch. E8 100/20 kW H - Meissner ch. E7 100/20 kW H - Biedenkopf ch. E2 20/3 kW V, d.

Frequency changers: Po.: H. *) Directional aerial.

ch.	Watts	ch.	Watts
Marburg*	11 30/6	Wetzlar*	11 1/0.2
Dillenburg	5 0.75/0.15	Birkenau/Odw.*	11 1/0.2
Bad Orb*	10 1/0.2	Höchst/Odw.*	11 1/0.2
Hardberg*	5 1000/200		0.5/0.1
Erbach/Odw.	6 0.75/0.15	Salmünster*	11 3/0.6
Michelstadt	11 1/0.2		1/0.2
Philippsthal*	9 1/0.2	Bad Sooden-	
Kammerforst*	9 3/0.6	Allendorf	E9 1/0.2
B. Schwalbach*	5 0.5/0.1	Bad Hersfeld	9 3/0.6
Iltaiger*	6 1/0.2	Rotenburg (Fulda)	9 3/0.6

D. PRGR.: Test-transmissions: W. 09.00-11.00, 12.00-15.50.

2nd Prgr.: D. 19.00-21.00. - Transmitters of Deutsche Bundespost: Feldberg/Is. Ch. 17 - Kassel ch. 26 - Fulda ch. 19.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

FI.: By license payments. - AD.: D. (exc. Sun.) max. 17 min. - ADDR. & L.P.: See Sound Broadcasting.

STATIONS:

Bremen ch. E15 10/2 kW, H - Bremerhaven ch. E5 30/6 W, V. AD.: See NDR.

NDR-FERNSEHEN

ADDR.: Hamburg-Lockstedt, Gazellenkamp 57. Te.: 580221. - L.P.: Intendant: G. Schröder. Presse: H. Ruppertsberg, Zeitgeschehen & Nordschau: R. Proske. Tagesschau: H.-J. Reiche. Fernsehspiele & Fernseh-Dramaturgie: E. Munk. Musik: W. Zillig.

STATIONS:	ch.	kW	Pol.	ch. E	kW	Pol.
Oldenburg/ }	2	100	H	Heide	10	25 V
Steinkimmen/ }				Harz	10	100 H
Flensburg	4	50	H	Bungsberg	14	200 H
Kiel	5	5	H	Lingen	17	35 H
Hannover	8	5	H	Dannenberg	36	150 H
Hamburg	9	100	H	Aurich	46	200 H

Frequency-changers:	Watts	Pol.		ch.E WattsPol.			
Goslar/Oker	5	30	H	Uslar	8	1	V
Bad Grund I	5	2	V	Osterode	8	1	V
Osnabrück	5	60	V	Helgoland II	8	0.5	H
Hameln/Weser	5	12	V	B. Salzdetfurth I	8	1	V
Freden	5	3	V	Zorge	8	0.5	H
Helgoland I	5	0.5	H	Göttingen	9	60	V
Cuxhaven	6	100	V	Alfeld	9	2.5	V
Bad Harzburg	7	1	H	Bad Grund II	9	0.25	H
Lübeck	7	300	V	Bodenwerder	9	1	H
Holzminden	8	4	H	Grafensundern/			
St. Andreasberg	8	2	V	Iburg	10	25	V
Braunlage	8	1	H	Bad Sachsa	11	5	H
Hann. Münden	8	10	H	B. Salzdetfurth II	11	0.75	V

D. PRGR.: Test-tr.'s: Hamburg: Mo. 12.00-15.45, Tues.-Fri. 09.00-11.00 & 12.00-15.45, Sat. 09.00-11.00. - Regional Prgr.: W. 17.45-18.35, Sun. 18.00-18.30. - AD.-TV: W. 18.25-19.00.

Projected st.'s: Hamburg ch. 46 400 kW. Kiel ch. 49 30 kW. Harz/ West ch. 53 400 kW.

WDR FERNSEHEN

First TV-Prgr.: Polarization: H.	STATIONS:	ch. E	kW(ERP)	ch. E	kW(ERP)
Aachen-Stolb.	24	50/10	Münster	32	250/50
Bonn*	5	0.5/0.1	Nordhelle	30	5/1
Kleve	58	8/0.16	Teutob. Wald	11	100/20
Köln	11	5/1	Wuppertal*	6	0.6/0.12
Langenberg	9	100/20			

*) 95 low power frequency changers. *) Satellite s.t.

Second TV-Prgr.: Polarization: H.	STATIONS:	ch. E	kW(ERP)	ch. E	kW(ERP)
Aachen	37	500/100	Dortmund	25	500/100
Bonn	26	100/20	Düsseldorf	29	500/100
Bielefeld	33	500/100	Minden	26	200/40

D. PRGR.: Testtr.: 1st Prgr. Köln W.: 09.00-11.00, 12.00-17.00, 2nd Prgr. 17.00-18.30 (Sun.), 13.00-18.30 (Mo.), 09.00-18.30 (Tues.-Sat.).

- Reg.-Prgr.: 1st Prgr.: W. 17.40-18.15. - AD-TV: 18.15-19.00, 2nd Prgr.: W. 18.30-19.00. - Common Prgrs.: 1st Prgr.: 16.00-17.00, 19.00-21.30 (Sun. 10.30-21.30). 2nd Prgr.: 19.00-21.00.

SAARLÄNDISCHES FERNSEHEN (A. G. Comm.)

FI.: By license payments and adv. AD.: 8 mins. - ADDR.: Martin Lutherstr. 12, Saarbrücken. Intendant: Schloss Halberg. Cable: Rundfunk Saar. Te.: 6 5742 - L.P.: See Sound Broadcasting. - Stations: Götteleborn Höhe ch. E2 100/20 kW, V. - Merzig ch. E11 035/0.7 Watt, H. - D. Prgr.: "Werbesendung" 18.25-19.00.

SENDER FREIES BERLIN

FI.: By license payments. - ADDR.: Fernsehen, Masurenallee 8/14, Berlin-Charlottenburg 9. Cable: Sender Freies Berlin. Te.: 92 02 51. - L.P.: Intendant: W. Steigner. Dir. Prgr.: H. H. Fischer. Dir. Tec.: Dipl. Ing. U. Bläser. - STATION: Berlin-Witzleben ch. E7 50/10 kW.

Television: Germany - Italy

SÜDDEUTSCHER RUNDFUNK FERNSEHEN (Anstalt des öffentlichen Rechts)

FL.: By license payments. - ADDR.: Neckarstrasse 145, Stuttgart. Cable: Südfunk. Te.: 299701. - L.P.: TV-Dir.: H. Jaedicke. Dir. Tec.: Dr. H. Rupp. - Stations: Stuttgart ch. E11 100/20 kW, H - Aalen ch. E8 20/4 kW, V - Pforzheim ch. E5 0.05/0.01 kW, H*) - Waldenburg ch. E9 100/20 kW - Heidelberg ch. E7 50/10 kW, V - Ulm ch. E11 0.03/0.006 kW, V*) Geislingen ch. E6 0.003/0.0006 kW, V. *) Frequency changers.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

FL.: By license payments. - AD.: D. (exc. Sun.) max. 12 mins. - ADDR.: Südwestfunk Fernsehen, Hans Brodewstr., Baden-Baden. Cable: Südwestfunk. Te.: 761. - L.P.: See Sound Broadcasting. STATIONS: ch.E kW(ERP) ch.E kW(ERP)
Raichberg 4 40/8d. Baden-Baden 7 0.3/0.06d.
Trier 5 0.6/0.12 H Hornisgr. 9 100/20d.
Koblenz 6 50/10d. Feldberg 8 10/20d.
K'lautern 7 0.3/0.06d. H Weinbiet 10 50/10d.
Zweibrücken 7 0.08/0.01d. H Eifel 16 20/4d. H
Freiburg 7 0.021/0.04 d. H Haardt Kopf 18 200/40 H
*) 75 low power-freq. changers. *) freq. changer.
D.PRGR.: 16.00-17.00, 17.30-21.00 (Regional prgr. 17.30-19.00).

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHER FERNSEHFUNK (Go.)

FL.: By state. - AD.: Twice weekly before 18.00. ADDR.: Deutscher Fernsehfunk, Berlin-Adlershof, Rudower Chaussee 116. Cable: Fernsehfunk Berlin. Te.: 642011. - L.P.: Intendant: Heinz Adameck. Prgr. Leitung: Walter Heynowski. Techn. Leitung: Rolf Kramer. STATIONS: Berlin E5 - Brocken E6 - Cottbus E4 - Heltberg E3 - Inselberg E5 - Karl Marx-Stadt E8 - Leipzig E3 - Marlow E8 - Schwerin E11 - Dresden 145.25/150.25 mcs. D.PRGR.: Test-transmissions: approx. 11.30-13.00. Prgrs.: Mo.-Fri. (approx.): 09.00-11.00, 15.00-21.00, Sat. (approx.): 09.00-11.00, 13.00-22.00, Sun. (approx.): 09.00-21.00.

* GREAT BRITAIN *

BRITISH BROADCASTING CORPORATION

The BBC's Television Service is an integral part of the British Broadcasting.

ADDR. and L.P.: See Sound Broadcasting.

STATIONS: ch. kW ch. kW
Divis 1 12 H Blaen-plwyf 3 1-30 H
Crystal Palace¹ 200 V (W. Wales)
Thrumstr⁶ 1 0.25-70 V Sandale 4 10-280 H
Sheffield 1 0.05 H Les Platons⁴ 4 1 H
Dover 2 0.04-1.40 V Sutton Coldf. 4 100 V
Holme Moss² 2 100 V Folkstone 4 0.007max. H
Brighton 2 0.04-0.40 V Meldrum 4 4-170 H
Londonderry² 2 0.5-1.50 H Hastings 4 0.02 H
N.Hessary T. 2 1.5-150 V Wenvoe 5 100 V
Rosemarkie 2 0.5-1.50 H Pontop Pike 5 12 H
Kirk o'Shotts³ 3 100 V Douglas⁷ 5 0.18-2.80 V
Tacolneston³ 3 1.3-150 H Peterborough 5 1 H
Rowridge⁹ 3 1-320 V Orkney 5 4-140 V
These 25 st.'s serve nearly 99% of the United Kingdom population.

¹) London. ²) Nr. Huddersfield. ³) C. Scotland. ⁴) Channel Islands. ⁵) Norwich. ⁶) N.E. Scotland. ⁷) Isle of Man. ⁸) N. Ireland. ⁹) Isle of Wight. ⁰) Directional transmitting aerial.

D.PRGR.: All stations: Trade Test transmissions: Mo.-Sat. 10.00-13.00. Prgr. Hours approx.: Mo.-Fri. 10.00-12.00, 14.00-14.40 For Schools (during term-time), 14.00-15.30, 17.00-23.05, Sat. 13.45-23.00, Sun. 14.00-18.15, 19.00-23.00.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.)

(Comm.)

FL.: Prgr. contractors financed solely from advertising revenue. I.T.A. financed solely from rentals paid by contractors. - AD.: 6 mins. per h. averaged over the day. Max. in any 1 h. 7 mins.

ADDR.: 70 Bromton Road, London, S.W.3. Te.: Knightsbridge 7011. - L.P.: Chairman: Sir I. Kirkpatrick, G.C.B., G.C.M.G. Dir. Gen.: Sir Robert Fraser, O.B.E. Int. Officer: M. Hallett.

STATIONS: ch. B ch. Po. kW(ERP)* Area served
Croydon 9 V 120 London
Lichfield 8 V 400 Midlands area
Winter Hill 9 V 100 Norths area
Emley Moor 10 V 200
Black Hill 10 V 475 C. Scotland
St. Hilary 10 V 200 S. Wales, W. England
Chillerton Down 11 V 100 C. Southern England
Burnhope 8 H 100 N.-Ea. England
Mendlesham 11 H 200 Ea. Anglia area
Black Mountain 9 H 100 Northern Ireland
Dover 10 V 100 So.-Ea. England

STATIONS: ch. B ch. Po. kW(ERP)* Area served
Stockland Hill 9 V 100 So. We. England
Caradon Hill 12 V 200 So. We. England
Caldbeck 11 H 100 The Borders
Selkirk 13 V 25 (under construction)
Durriss 9 H 400 N. Ea. Scotland
Mounteagle 12 H 50 (under construction)
*) Maximum ERP.

Prgr. Companies: A.B.C. TV, Ltd. - Associated Rediffusion, Ltd. - Associated TV Ltd. - Granada TV Network Ltd. - Scottish TV Ltd. - (T.W.W.) Southern TV Ltd. - Tyne Tees TV-Ltd. - Anglia T.V. Ltd. - Ulster T.V. Ltd. - Independent T.V. News Ltd. - Westward T.V. Ltd. - Border T.V. Ltd. - Channel Islands Communications (T.V.) Ltd. - North of Scotland T.V. Ltd. - Wales Television Association. D.PRGR.: Mo.-Fri.: 16.45-23.30, Sat. 13.00-23.30, Sun. 11.00-23.30. - F.PL.: North and West Wales.

* HOLLAND *

NEREDLANDSE TELEVISIE STICHTING (N.T.S.)

ADDR.: P.O. Box 10, Hilversum. Cable: Televisie. Te.: 0 2950/16851. - The Dutch prgr.'s are provided by the N.T.S. and the broadcasting societies as mentioned under Sound broadcasting. - Board of the N.T.S.: Chairman: E. A. Schiuttenhelm. Sec.: H. W. van Doorn L.L.D. Members: H. Algra, J. B. Broeksz, Prof. Dr. T. ten Have, Dr. J. A. de Koning, Miss W. M. van Lanschot L.L.D., A. J. J. van der Made, N. Padi, D. Repko, Jhr. Th. Röell, A. B. Roosjen L.L.D., A. H. van de Veen L.L.D. - Stations: Lopik ch. E 4 100/20 kW, H - Roermond E5 50/10 kW, H - Smilde E6 50/10 kW - Goes E7 5/1 kW, H - Markelo E7 30/6 kW, H - Huissduinen E10 1/0.2 kW. - D.PRGR.: Sun., 19.00-21.30, Mo. 19.00-21.05, Tues. 19.00-21.00, Wed. 16.00-16.30, 19.00-21.20, Thurs., Fri. 19.00-21.20, Sat. 16.00-16.30, 19.00-21.20.

* HUNGARY *

MAGYAR RADIO ES TELEVIZIO (Go.)

ADDR.: Television Direction, V. Szabadsagter 17, Budapest. Te.: 113-200. - L.P.: Dir.: F. Kulcsar. Dep.-Dir.'s: G. Sándor, D. Révai. Dir. Tec.: R. Kerpel.

STATIONS: ch. kW ch. kW
Budapest I I 30/10 Szentes XI 20/10
Pécs II 5/1.5 Sopron IX 0.05/0.01
Miskolc IX 0.05/0.01
D.PRGR.: Tues., Wed., Thurs., Sat.: 17.00-22.00, Sun. 09.00-11.00, 15.00-22.00.

New st.'s: Tokaj ch. IV 0.5/0.25 kW. Kékes ch. VII 5/1 kW. Kabhegy ch. XII 20/5 kW.

* IRELAND *

RADIO EIREANN - TELEVISION (Statutory Corp.)

FL.: By license payments and adv. - AD.: 10% of prgr. hrs. - ADDR.: Montrose, Nutley Lane, Dublin. Te.: 69 31 11. - L.P.: See Sound Broadcasting.

STATIONS: 1) 625 lines. 2) 405 lines.
Mt. Kippure² ch. B7 100 kW H - Tauskmore² ch. B11 100 kW V - Mullaghanish¹ ch. C₂ 50 kW V - Mt. Leinster¹ ch. C₃ 50 kW V - Machera¹ ch. C₁ 50 kW V - Mt. Kippure¹ ch. C₁ 50 kW H - Tauskmore¹ ch. C₂ 100 kW V. D.PRGR.: to begin operation early 1962.

* ITALY *

RADIO-TELEVISIONE ITALIANA (State Service granted by public act to R.A.I.) - FL & AD.: See Sound Broadcasting.

ADDR.: Direzione Centrale TV, via del Babuino 9, Roma. - L.P.: Dir. Prgr. TV: Dr. Sergio Pugliese. Dir. Tec. TV: Eng. Gino Orsini.

STATIONS:

PIEMONTE: Bardonecchia ch. D, H - Borgo S. Dalmazzo ch. E, H - Candoglia ch. F, V - Canelli ch. F, V - Cannobio ch. E, H - Ceva ch. G, H - Cortemilia ch. F, V - Dogliani ch. G, V - Domodossola ch. H, V - Fenestrelle ch. D, H - Garesio ch. A, V - Gavi ch. E, V - Mondovì ch. F, H - Ovada ch. D, H - Premeno ch. D, V - S. Colombano ch. H, V - Sestriere ch. G, H - Susa ch. E, H - Torino ch. C, H - Torino Collina ch. H, V - Trivero ch. F, H - Varallo Sesia ch. H, H - Villadossola ch. F, H - Villar Perosa ch. H, H.

VALLE d'AOSTA: Aosta ch. D, H - Champoluc ch. D, V - Col de Courtil ch. E, V - Col de Joux ch. F, H - Courmayeur ch. F, H - Platteau Rosa ch. H, V - Saint Vincent ch. G, H.

LOMBARDIA: Airono ch. F, V - Bellagio ch. D, H - Bocca di Croce ch. H, H - Breno ch. F, H - Brunate ch. H, V - Chiavenna ch. H, H - Clusone ch. F, H - Como ch. F, V - Edolo ch. G, V - Esimate ch. E, H - Gardone Val Trompia ch. E, H - Gavardo ch. H, H - Lecco ch. H, H - Leffe ch. E, V - Milano ch. G, H - M. Creo ch. H, H - M. Marzio ch. F, H - M. Padrio ch. H, H - M. Penice ch. B, H - Nossia ch. D, H - Oggiono ch. E, V - Pigra ch. A, H - Poira ch. G, V - Ponte Chiasso ch. D, V - S. Pellegrino ch. D, V - Sondalo ch. F, H - Sondrio ch. D, V - Stazzona ch. E, V - Tirano ch. A, H - Valle S. Giacomo ch. F, H - Valtelle ch. E, V.

TRENTINO-ALTO ADIGE: Bassa Val Lagarina ch. F, H - Bolzano ch. D, H - Borgo Val Sugana ch. F, H - Brunico ch. H, H - Brennero

ch. F, H - Cima Palon ch. H, H - Cima Penegal ch. F, H - Conca di Tesino ch. E, H - Fiera di Primiero ch. E, H - Grigno ch. H, V - Madonna di Campiglio ch. F, H - Marca di Pusteria ch. D, V - Merano ch. H, H - Mezzolombardo ch. D, V - Mione ch. D, V - Monte Elmo ch. F, H - Paganella ch. G, H - Pinzolo ch. E, H - Plose ch. E, H - Riva del Garda ch. E, V - Rovereto ch. E, H - San Martino di Castrozza ch. H, V - Santa Giuliana ch. D, V - Tesero di Fiemme ch. E, H - Val di Cembra ch. D, V - Val di Fassa ch. H, H - Val di Peiro ch. E, H - Val di Sole ch. H, H - Val Gardena ch. D, V - Valle Isarco ch. H, V - Val Venosta ch. A, H - Ziano di Fiemme ch. F, H.

VENETO: Agordino ch. F, H - Alleghe ch. G, H - Alpago ch. F, H - Arsie ch. E, H - Arsiero ch. H, V - Asiago ch. F, V - Auronzio ch. D, H - Calalzo ch. F, H - Col del Gallo ch. B, V - Col Perer ch. F, H - Col Visentin ch. H, H - Comelico ch. G, H - Cortina D'Ampezzo ch. D, V - Feltre ch. B, H - Follina ch. G, V - Fonzaso ch. G, H - Malcesine ch. H, V - Melentone ch. B, H - Montebelluno Maggiore ch. F, H - Monte Piana ch. F, V - Monte Raga ch. H, V - M. Venda ch. D, H - Pieve di Cadore ch. A, H - Recoaro ch. G, V - S. Pietro di Cadore ch. D, V - Soerverze ch. F, V - Tarzo ch. B, V - Valdagno ch. F, V - Valle del Boite ch. H, V - Valle del Chiampo ch. E, H - Valli del Pasubio ch. F, H - Valpantena ch. G, H - Verona ch. F, H - Vicenza ch. G, V - Vittorio Veneto ch. F, H.

FRILU-VENEZIA GIULIA: Ampezzo ch. H, V - Claut ch. F, H - Gorizia ch. B, V - Monte Tencchia ch. G, H - Paularo ch. H, H - Ovaro ch. D, V - Ravascletto ch. E, H - Tolmezzo ch. B, H - Trieste ch. G, H - Trieste Muggia ch. A, V - Udine ch. F, H.

LIGURIA: Bordighera ch. C, H - Borzonasca ch. B, V - Busalla ch. F, H - Camaldoli ch. F, V - Cengio ch. B, V - Finale Ligure ch. E, V - Genova Polcevera ch. D, V - Genova Righi ch. B, H - Imperia ch. E, V - La Spezia ch. F, H - Levanto ch. F, H - M. Burot ch. E, H - M. Capenardo ch. E, H - M. Tugio ch. F, H - Pieve di Teco ch. F, H - Portofino ch. H, H - Riomaggiore ch. E, V - Ronco Scrivia ch. H, V - San Nicolao ch. A, V - Sanremo ch. B, H - Sassello ch. F, H - Savona ch. F, H - Taggia ch. G, V - Toriglia ch. G, H - Val di Vara ch. E, V.

EMILIA-ROMAGNA: Bagno di Romagna ch. G, V - Bardi ch. H, H - Bedonia ch. G, V - Bertinoro ch. F, V - Bologna ch. G, V - Borgo Tossignano ch. H, V - Borgo Val di Taro ch. E, H - Brisighella ch. H, V - Casola Valsenio ch. G, H - Castelnuovo nei Monti ch. G, V - Civitella di Romagna ch. H, V - Farini d'Olmo ch. F, H - Langhirano ch. F, H - Marzabotto ch. H, H - Mercato Saraceno ch. G, H - Modigliana ch. G, H - M. Santa Giulia ch. F, V - Montese ch. H, V - Veviano degli Arduini ch. H, V - Pavullo nel Frign ch. G, H - Pievopelago ch. G, H - Poretta ch. G, V - Rocca S. Casciano ch. F, H - Salsomaggiore ch. F, H - S. Benedetto Val di Sambro ch. F, H - Santa Sofia ch. E, V - Vergato ch. B, V.

TOSCANA: Abetone ch. E, H - Aulla ch. H, V - Bagni di Lucca ch. B, H - Bagnone ch. E, V - Bassa Garfagnana ch. F, H - Borgo a Mozzano ch. E, V - Camaiore ch. B, V - Carrara ch. G, H - Casentino ch. B, H - Castiglioncello ch. G, H - Colle Val D'Elia ch. G, V - Farenzuola ch. H, H - Fivizzano ch. E, H - Gaiole in Chianti ch. B, H - Garfagnana ch. G, H - Gorgigliano ch. H, V - Greve ch. H, V - Lunigiana ch. G, V - Marradi ch. G, V - Massa ch. H, V - Minucciano ch. E, V - M. Argentario ch. E, H - M. Pidocchina ch. F, V - M. Serra ch. D, H - Mugello ch. H, H - Palzuolo sul Senio ch. F, V - Pietrasanta ch. A, H - Pieve S. Stefano ch. F, V - Pontassieve ch. E, H - Quercianella ch. F, V - Rufina ch. F, H - San Cerbone ch. G, H - S. Giuliano Terme ch. G, H - S. Marcello Pist. ch. H, V - Sassi Grossi ch. F, V - Scarlino ch. F, H - Seravalle ch. G, H - Vaiano ch. F, H - Val Taverone ch. A, H - Vernio ch. B, H - Zeri ch. B, H.

UMBRIA: Cascia ch. E, V - Gubbio ch. E, V - M. Peglia ch. H, H - Norcia ch. G, H - Sellano ch. F, V - Spoleto ch. F, H - Terni ch. F, V.

MARCHE: Acquasanta Terme ch. F, H - Ancona ch. G, V - Antico di Maiolo ch. H, V - Arquata del Tronto ch. D, V - Ascoli Piceno ch. G, H - Camerino ch. F, V - Castelsantangelo ch. F, H - Fabriano ch. G, H - Fermo ch. B, V - Fiuminata ch. H, V - Macerata ch. G, H - M. Conero ch. E, H - M. Nerone ch. A, H - Muccia ch. D, V - Pioraco ch. D, V - Punta Bore Tesino ch. D, H - Santa Lucia in Consilvano ch. H, V - San Paolo ch. B, V - S. Severino Marche ch. H, H - Serra San Quirico ch. H, V - Serravalle Del Chienti ch. G, H - Sossorosso ch. D, V - Sentino ch. H, V - Tolentino ch. B, V - Visso ch. D, H.

LAZIO: Acquapendente ch. F, H - Altipiani Arcinazzo ch. H, V - Amaseno ch. A, H - Amatrice ch. F, V - Antrodoco ch. E, V - Campo Catino ch. F, H - Carpineto Romano ch. D, V - Cassino ch. E, H - Fieletino ch. E, H - Fiuggi ch. D, H - Fondi ch. H, V - Formia ch. G, V - Isola Liri ch. E, V - Lenola ch. E, V - Leonessa ch. D, V - M. Favone ch. H, H - Pescorocchia ch. D, H - Roma ch. G, H - Segni ch. E, H - Settefrati ch. F, V - Sezze ch. F, H - Subiaco ch. D, H - Terminillo ch. B, V - Vallecorsa ch. F, V - Vallepiastra ch. E, V - Velletri ch. E, V - Vicalvi ch. D, V.

ABRUZZO E MOLISE: Barrea ch. E, V - Campobasso ch. E, V - Campuzio Imperatore ch. D, H - Campotosto ch. G, V - Casoli ch. D, H - Castel di Sangro ch. G, H - Cermignano ch. F, V - Civita D'Antino ch. G, V - Fucino ch. D, V - Isernia ch. G, V - Larino ch. D, V - Lucoli ch. F, H - Monteferrante ch. A, H - M. Cimarani ch. F, H - M. Patalechia ch. E, H - Montorio al Vomano ch. G, V - Oricola ch. E, H - Pescara ch. F, H - Pietra Corniale ch. D, V - Rocca-

raso ch. F, H - Scanno ch. H, V - Sulmona ch. E, V - Teramo ch. D, V - Torricella Peligna ch. G, H - Vasto ch. G, V.

CAMPANIA: Agnone ch. G, H - Airola ch. E, H - Benevento ch. G, H - Campagna ch. G, H - Capri ch. F, V - Golfo di Policastro ch. F, H - Golfo di Salerno ch. E, V - Gragnano ch. G, V - M. Faito ch. B, H - M. Vergine ch. D, H - Nusco ch. F, H - Padula ch. D, V - Presenzano ch. F, V - S. Agata dei Goti ch. H, H - S. Maria a Vico ch. F, H - Sorrento ch. F, H - Teggiano ch. F, H.

PUGLIA: Bari ch. F, V - Castro ch. F, H - Martina Franca ch. D, H - Monopoli ch. G, V - M. Caccia ch. A, H - M. d'Elia ch. B, V - M. Sambuco ch. H, H - Salento ch. H, V - S. Marco in Lamis ch. F, V - S. Maria di Leuca ch. E, H - Sannicandro Garg. ch. F, V.

BASILICATA: Anzi ch. F, V - Baragiano ch. G, V - Chiaromonte ch. H, H - Lagonegro ch. H, H - Moliterno ch. E, H - Pescopagano ch. G, V - Potenza ch. H, H - Spinoso ch. G, V - Treccina ch. E, V - Tramutola ch. E, V - Tursi ch. F, H - Vignanello ch. F, V.

CALABRIA: Aciri ch. H, V - Capo Spartivento ch. H, H - Catanzaro ch. F, V - Crotone ch. B, V - Gambarie ch. D, H - Longobucco ch. G, V - Mammola ch. B, H - M. Scuro ch. G, H - Morano Calabro ch. E, H - Pizzo ch. H, V - Roseto Capo Spulico ch. F, V - S. Giovanni in Fiore ch. E, V - S. Marco Argentano ch. H, H - Serra S. Bruno ch. H, V - Solleria ch. D, V - Valle Crati ch. E, V.

SICILIA: Agrigento ch. H, H - Alcamo ch. E, V - Capo d'Orlando ch. F, H - Carini ch. F, V - Castelbuono ch. F, H - Castiglione di Sicilia ch. G, V - Cimini ch. G, V - Fondacello ch. H, V - Galati Mamertino ch. C, H - Ispica ch. D, V - Mistretta ch. D, V - Modica ch. H, H - Monreale ch. D, V - M. Cammarata ch. A, H - M. Mauro ch. F, H - M. Pelicciolo ch. H, H - M. Soro ch. E, H - Nicosia ch. H, V - Noto ch. B, H - Pantelleria ch. G, V - Piraino ch. D, V - Porto Empedocle ch. E, H - Pantella Raisi ch. D, V - S. Stefano Quisquina ch. H, H - Scicli ch. H, V - Termini Imerese ch. E, V - Tortorici ch. G, V - Trapani ch. H, V.

SARDEGNA: Alghero ch. H, V - Arbus ch. H, H - Bitti ch. E, H - Cagliari ch. H, V - Campu Spina ch. F, H - Castelsardo ch. E, V - Cuglieri ch. G, V - Desulo ch. F, H - Fluminimaggiore ch. H, V - Gairo ch. H, V - M. Limbara ch. H, H - M. Ortobene ch. A, H - M. Serpeddi ch. G, H - Oliastro ch. E, H - Ozieri ch. E, V - P. Badde Urbarda ch. D, H - S. Antioco ch. B, V - Sarabus ch. D, V - Sassari ch. F, H - Sennori ch. H, V - Siniscola ch. H, V - Teulada ch. H, H.

D.PRGR.: W. 12.30-15.05 ("Telescuola") - for schools, 16.00-17.00 (Childrens H.), 17.30-22.00 (approx.). N.: 17.30, 19.30, 22.00. Sun. 09.15-11.00, 15.00-23.00.

Link connections with foreign countries: Italy-France: Milano-Monte Bignone-Pic de l'Ours - Italy-Switzerland: Milano-Monte Generoso-Uetliberg - Italy-Yugoslavia: Trieste-Monte Nanos-Ljubljana.

* LUXEMBOURG *

TELE LUXEMBOURG (Comm.)

FL: by adv. - ADDR: See Sound broadcasting. - L.P.: Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Dir. Tec.: N. Schmit. STATION: Def. 819, ch. E 700/20 kW, H. - D. PRGR.: Sun., Thurs., Sat. 16.00-21.30; Mo., Tues., Wed., Fri. 18.00-21.30.

* MONACO *

TÉEÉ MONTE-CARLO (Comm.)

FL: By advertisements. - ADDR: 16 Blvd. Princesses Charlotte, Monte Carlo. Cable: Tele Carlo. Te.: 30.39.40. - L.P.: Dir. Gen.: M. Micheo. Stations: Ch. F10 50/10 kW. - Projected st.: Ch. F2 H. - D. PRGR.: D. 19.00-22.00.

* NORWAY *

NORSK RIKSRKINGKASTING (Go.)

FL: By license payments. - ADDR: See Sound Broadcasting. - L.P.: Dir. Gen.: K. Fostervoll. Chief of Planning: O. Granlund. Dir. Prgr.: O. Nes. Dir. Tec.: T. Navelsaker.

STATIONS: ch. E. Po. H.: Oslo ch. 6 10/2 kW - Bergen ch. 9 140/20 kW - Kongsberg ch. 4 1.5/0.2 kW - Drammen ch. 9 3.3/0.7 kW - Kongsvinger ch. 9 4/0.8 W - Larvik ch. 9 1.5/0.3 W - Sandefjord ch. 10 1.5/0.3 W - Skien ch. 11 10/10 W - Tønsberg ch. 11 0.2/0.5 W - Furuset ch. 11 40/10 W - Gjøvik ch. 9 18/1 W - Hamar ch. 11 6/0.5 W - Porsgrunn ch. 8 2/0.3 kW. D.PRGR.: Testpicture W. 10.00-15.00. Prgrs.: D. 18.30-19.30.

* POLAND *

POLSKIE RADIO I TELEWIZJA (Go.)

FL: By state. - ADDR: Telewizja, Plac Powstanców Warszawy 7, Warszawa. Cable: Telewar. Te.: 6-52-71 (Prgr. exchange 630-93). - L.P.: Pres.: W. Sokorski. Vicepres., Engineering: K. Kozłowski. Dir. TV: J. Panski. Chief Eng.: J. Rutkowski. Prgr. Exchange: Mrs. K. Zebrowska.

STATIONS: Po.: H. Ch. ORT. * = Satellite st.'s.
Warszawa ch. 2 7.5/3 kW Szczecin ch. 12 8/1.6 kW
Gdansk - 3 4/1.25 - Olsztyn - 6 1.2/0.3
Katowice - 8 225/75 - Kielce* - 1 0.32/0.1
Łódź - 6 2.5/0.8 - Zakopane* - 6 0.002/0.001
Poznan - 7 9/2 - Kraków* - 10 0.008/0.002
Wrocław - 12 12/30 - Bydgoszcz - 6 30/7W

Television: Poland – USSR

D. PRGR.: Mo.–Fri. 16.00–22.00, Sat. 16.00–23.30, Sun. 11.00–22.00. **F.P.L.**: 1962: Lublin ch. 9 120 kW, Rzeszów ch. 12 100 kW, Zielona Góra ch. 3 200 kW, Zgorzelec ch. 6 2 kW, Kielce ch. 3 100 kW. **Link connections**: Warszawa-Gdansk-Kaliningrad/U.S.S.R.-Warszawa-Lodz-Katowice-Wroclaw-Poznan-Szczecin. Wroclaw-Zvicina/Czechoslovakia-Wroclaw-Görlitz/DDR.

★ PORTUGAL ★

RTP – RADIOTELEVISÃO PORTUGUESA, S.A.R.L. (Comm.)
Port. Go.: 1/3 of the shares. – **Fl.**: License payments and adv.s.

ADDR.: Head Office: Rua de S. Domingos (à Lapa) 26, Lisboa. Studio: R. Particular à Alameda das Linhas de Torres 44, Porto: Santo Ovidio, Vila Nova de Gaia. **Cable**: Televisão. **Te.**: 666134. **L.P.**: Pres. of the Board of Dir.'s: Dr. L. d'Atayde. Board of Dir.'s: Major J. B. Moniz, M. Lopes da Cruz, Eng. M. Bivar. Gen. Mgr.: Eng. Barradas da Silva. Eng. Dept. Mgr.: Eng. B. Machado. Prgr. Dept. Mgr.: A. Marcello Marais.

STATIONS: Ch. E: Lisboa (Monsanto) 7 100/20 kW H – Porto (M. da Virgem) 9 100/20 kW H – Montejunto 6 1/0.2 kW H – Monchique (Foja) 5 6.5/1.3 kW H – Lousã 3 60/12 kW H and several rpt. st.'s in work and under installation.

D. PRGR.: W. 19.30–24.00, Sun. 11.30–13.00, 18.30–24.00.

★ ROMANIA ★

RADIODIFUZIUNEA TELEVIUNEA ROMINA (Go.)

Addr.: Studioul de Televiziune, Str. Molière 2, Bucuresti. **STATIONS**: Po=H. Ch.=OIRT. – Bucuresti ch. II 20/10 kW (Main st.) – Bacau ch. I 0.6/0.3 kW (relay) – Brasov ch. III 0.1 kW – Pitesti ch. IV 0.025 kW – Birlad ch. VIII 0.01 kW. – **D. PRGRS**: Sun.: 07.00–10.00, 16.30–20.00. Mo., Tues., Thurs., Sat. 16.30–20.00. Wed. 14.00–16.00.

★ SPAIN ★

TELEVISION ESPAÑOLA (Go.)

Addr.: Avenida de la Habana 77, Madrid. – **L.P.**: Dir. Gen. Radio and TV: Ilmo Sr. D. J. Maria Revuelta Prieto. – **STATIONS**: Madrid-Navacerrada ch. E2 200/80 kW H. – Madrid-Chamartin ch. E3 21 kW, H. – Zaragoza (La Muela) ch. E3 6/1 kW, H. – Bilbao ch. E4 80/40 kW – Valencia (Mt. Garbi) ch. E5 0.05/0.025 kW, H. – Barcelona ch. E4 25/5 kW, H. – Tortosa (Mt. Caro) ch. E10 50/25 kW, H. – **TV-link-chain**: Seven intermediate rel. st.'s interconnecting Madrid-Zaragoza-Barcelona. – **Under construction**: Sevilla ch. E3, Santiago ch. E3 80/40 kW.

D. PRGR.: From Madrid, Barcelona: 14.45–16.00, 20.00–24.00.

★ SWEDEN ★

SVERIGES RADIO

Swedish TV: run by Sveriges Radio; has the same non-commercial and official status as the broadcasting service. – **Fl.**: By license payments.

ADDR.: Radiohuset, Oxenstiernsgatan 2, Stockholm. **Postal Addr.**: Box 955, Stockholm 1. **Cable**: Broadcast. **Te.**: 631040.

L.P.: See Sound Broadcasting.

KUNGL. TELESTYRELSEN (The Board of Telecommunications) has the responsibility for the distribution of the prgrs. produced by Sveriges Radio and has also charge of the collection of license fees.

ADDR.: Stockholm 16. **Cable**: Gentel. **Te.**: Trunk calls: 236060, local calls: 236040. – **L.P.**: See Sound Broadcasting.

STATIONS: ch. E, H, kW (E.R.P.)

Name	ch.	kW	Name	ch.	kW
Anderstorp u)	9	0.15 V	Skellefteå	6	1.5
Bollnäs	6	15	Skövde	3	15
Borlänge	10	25	Sollefteå	7	15
Borås	6	1.5	Sollefteå u)	10	0.01 V
Bäckefors	8	60	Stockholm	4	60
Emmaboda	8	15	Storuman	10	15
Falun u)	5	0.01 V	Sundsvall	5	15
Gävle	9	15	Sunne	7	60
Göteborg	9	15	Sveg	3	15
Halmstad	7	15	Tranås u)	8	0.01 V
Hudiksvall u)	10	0.15 V	Trollhättan	7	1
Hultsfred u)	9	0.15	Täsjö	9	15
Hälsingborg	9	1	Uddevalla	2	1 V
Härnösand	10	0.15	Uppsala	6	3
Hörby	2	100	Varberg	10	1 V
Jönköping u)	8	0.15	Visby	9	25
Karlskrona	9	3 V	Vännäs	2	60
Karlstad	5	1 V	Västervik	6	25
Linköping	9	1	Västerås	8	10
Lycksele	8	1.5	Växjö	5	0.15
Malmö	10	1	Ånge	8	1.5
Mora	8	3 V	Åre u)	10	0.01 V
Motala	7	3	Örebro	2	60
Norrköping	5	15	Örnsköldsvik	6	3 V
Nässjö	10	15	Östersund	4	60

D. PRGR.: Approx.: Sun.: 11.00–12.00, 18.30–21.00, Mo.: 16.30–17.00, 18.30–20.30, Tues.: 17.00–17.30, 18.00–21.00, Wed. 18.30–21.00, Thurs. 17.00–21.15, Fri. 18.30–20.45, Sat.: 17.00–17.30, 18.00–21.00.

TV for Schools: Mo., Tues.: 09.00–09.25, 11.00–11.25; Wed.: 09.00–09.20, 11.00–11.25, 17.00–18.00; Fri.: 09.00–09.20, 11.00–11.50.

TV stations under construction: a) before the end of 1961: Boden ch. 4 60/12 kW – Grebbestad u) ch. 6 0.15/0.03 kW, V – Gällivare ch. 9 60/12 kW – Kiruna ch. 6 60/12 kW – Köpmanholmen u) ch. 9 0.01/0.002 kW, V – Lofstrand u) ch. 4 0.15/0.03 kW, V – Norrköping ch. 5* 60/12 kW – Strömstad u) ch. 5 0.15/0.03 kW – Sundsvall* ch. 5 60/12 kW – Sysleback u) ch. 10 0.15/0.03 kW, V – Östhammar u) ch. 10 0.15/0.03 kW, V – Pajala ch. 7 15/3 kW.

b) Before 1st July 1962: Arvidsjaur ch. 5 15/3 kW – Göteborg* ch. 9 60/12 kW – Gäddede u) ch. 6 0.01/0.002 kW – Nässjö* ch. 10 60/12 kW – Storuman* ch. 10 60/12 kW – Sveg* ch. 3 60/12 kW – Växjö* ch. 5 3/0.6 kW, V.

u)=stations beyond the Stockholm plan. *****=power to be increased.

★ SWITZERLAND ★

SWISS TELEVISION (Go.)

Fl.: a) By the proceeds from the TV license-fees, divided between the SBC and PTT at the rate of 70/30 per cent; b) by a federal loan up to 8.4 mill. Sw.Fr., repayable with interest (3 per cent); c) by an annual grant of 2 mill. Sw.Fr. over a period of 10 years, given by the Swiss newspaper editors. – **AD**: Not allowed.

ADDR.: Swiss Television, 26 Kreuzstrasse, Zurich. **Cable**: Telesuisse. **Te.**: Zurich (051) 34.80.30, Geneva (022) 24.72.50. – **L.P.**: Dir. Swiss Television: Edouard Haas. Head German Prgr.: Dr. Guido Frei. Head French Prgr. and Deputy Dir.: René Schenker. Head Italian Prgr.: Franco Marazzi. Head Tec.: H. R. Züst. Head Adm.: Rolf Wylder. Head Prgr. Coordination: Frank R. Tappolet.

STATIONS: Ch. E. Po.: H.

German Prgr.: Bantiger (Berne) ch. 2 30/6 kW – Uetliberg (Zürich) ch. 3 60 kW – Säntis ch. 7 15/3 kW – St. Chrischona (Bâle) ch. 10 10/2 kW.

PTT boosters: Rigi (Lucerne) ch. 6 100/20 Watts – St. Gall ch. 10 10/2 Watts. – **Private boosters**: Obersays (Coire) ch. 10 75/15 Watts – Feldis¹ (Grisons) ch. 6 60/12 Watts – Trans¹ (Grisons) ch. 8 75/25 Watts – Ruschein¹ (Grisons) ch. 9 150/30 Watts – Luven¹ (Grisons) ch. 5 25/5 Watts.

¹=provisional data.

French Prgr.: La Dôle ch. 4 144/28 kW – La Chaux-de-Fonds (Jura) ch. 9 6/1.2 kW.

PTT boosters: Mt.-Pélérin (Léman) ch. 11 300/60 Watts – Ravoire (Valais) ch. 9 1800/360 Watts. – **Private boosters**: Veysonnaz (Sion) ch. 6 500/100 Watts – Moron (Jura) ch. 11 21/4.2 Watts.

Italian Prgr.: Mt. Ceneri ch. 5 4.8/1 kW – Mt. San Salvatore ch. 10 10/2 kW.

PTT booster: Mt. Morello ch. 6 30/6 Watts.

D. PRGR.: In German, French and Italian*: Sun. 18.30–21.30 (approx.). Mo.–Fri. (exc. Tues.): 19.00–21.15 (approx.) and special prgrs. in the afternoon, f. inst. Eurovision sporting events etc. – Wed. and Thurs. afternoon Children's Hour. Sat. afternoon: Children's Hour, Women's Prgr., Sport News. – Sun. morning: Outside broadcast service from churches. – Sun. afternoon: Farmers' prgr., sports news, film prgr.'s, etc.

***) The Italian-speaking tr's relay**, besides 4 h's weekly produced by Tessin's own O. B. van, prgrs. from the German-speaking and French-speaking part of Switzerland, resp. with comm. in Italian.

Type of programmes: The Swiss TV programmes cover all subjects. **Relay facilities**: A microwave link across the Alps. It runs from Gempen, near Bâle (northern border) to Froburg-Bantiger-Jungfrau (12,200 ft.) – Mt. Generoso (southern part of Switzerland) on the one side, and the German and Italian TV systems on the other side. – A second microwave link runs from Uetliberg – Froburg – Bantiger – Romont – La Dôle. It has been extended to Cuiseaux for the programme exchange with France. – Third link: Uetliberg – Säntis – Pfänder (Austria).

Projected Stations: Towards the end of 1961: Niedhorn ch. 12 (German prgr.), Valzeina/Coire (replaces the private booster Obersays), Les Ordon (French prgr.) – Bantiger: Second tr. for French prgr. 1963 – Rigi (C. Switzerland) 1963.

★ USSR ★

STATIONS: Ch. R—, Def.: 625. Polarisation: Horizontal.

THE SOVIET TELEVISION (Go.)

ADDR.'s of the most important TV studios: Tsentralnaja studija televiziija Moskva, ul. Sjabolovka 53 (Dir. I. Inozemtsev) – Leningradskaja studija televiziija Leningrad, ul. Malaja Sadovaja 2 – Kijevskaja studija televiziija Kijev, Krestjatzk 24 – Minskaja studija televiziija Minsk, ul. Kalinina 6 – Rizijskaja studija televiziija Riga, ul. B. Nometnu 62 – Tallinskaja studija televiziija Tallinn, ul. Krejtsvalda 14 – Bakinskaja studija televiziija Baku, Parkovaja ul. 1. – Tasjkentskaja studija televiziija Tasjkent, ul. Navoi 69 – Jerevanskaja studija televiziija Jerevan, pr. Ordjonikidze 22 – Tbilisskaja studija televiziija Tbilisi, pr. Rustaveli 12 – Vilnusskaja studija televiziija Vilnius, studija televiziija – Alma-Atinskaja studija televiziija Alma-Ata, studija televiziija – Kijisjnovskaja studija televiziija Kijisjnov, studija televiziija.

L.P.: Moscow TV Centre: Dir.: B. P. Stepanov. Vice-Dir.: M. A. Zhdanov.

STATIONS: Television Centres:

Moscow ch. 1 15/4 kW - Moscow ch. 3 7.5/3 kW - Moscow ch. 8 (colour)

RSFSR: Armavir ch. 1 - Barnaul ch. 3 - Biysk ch. 1 - Bryansk ch. 2 - Vorkuta ch. 3 - Voronezh ch. 1 - Vladivostok ch. 1 - Gorkiy ch. 2 - Zzhnevsk ch. 2 - Irkutsk ch. 3 - Kazan ch. 1 - Kaliningrad ch. 4 - Kemerovo ch. 5 - Kirov ch. 3 - Krasnodar ch. 5 - Krasnayaarsk ch. 2 - Kuybyshev ch. 3 - Leningrad ch. 1 15/4 kW - Murmansk ch. 3 - Nalchik ch. 1 5/2 kW - Novosibirsk ch. 2 - Norilsk ch. 1 - Omsk ch. 1 5/2 kW - Penza ch. 4 - Perm ch. 1 - Petrozavodsk ch. 2 5/2.5 kW - Pyatigorsk ch. 2 - Rostov ch. 1 - Rubtsovsk ch. 2 - Saratov ch. 1 - Sverdlovsk ch. 3 5/2 kW - Sochi ch. 1 - Stalingrad ch. 4 - Stalingorsk ch. 5 - Tomsk ch. 1 5/2 kW - Tyumen ch. 2 - Ulyanovsk ch. 5 - Ufa ch. 1 5/2.5 kW - Cherepovets ch. 5 - Chelyabinsk ch. 4 - Yaroslavl ch. 2 - Ukrainian SSR: Dnepropetrovsk ch. 5 5/2 kW - Zaporozhye ch. 6 - Kiev ch. 2 15/4 kW - Lugansk ch. 2 - Lvov ch. 1 - Nikolayev ch. 2 - Odessa ch. 5 15/4 kW - Stalino ch. 4 15/4 kW - Simferopol ch. 3 - Kharkov ch. 37/3.5 kW - Kherson ch. 3 2/1 kW - White Russian SSR: Gomel ch. 3 - Minsk ch. 1 5/2 kW - Kazakh SSR: Alma Ata ch. 3 5/2.5 kW - Karaganda ch. 1 - Ust Kamenogorsk ch. 1 - Azerbaijan SSR: Baku ch. 3 5/2 kW - Lithuanian SSR: Vilnius ch. 4 15/4 kW - Armenian SSR: Yerevan ch. 1 5/2 kW - Moldavian SSR: Kichinev ch. 3 15/4 kW - Latvian SSR: Riga ch. 3 5/2 kW - Estonian SSR: Tallinn ch. 2 15/4 kW - Uzbek SSR: Tashkent ch. 3 5/2.5 kW - Georgian SSR: Tbilisi ch. 4 5/2 kW - Kirghiz SSR: Frunze ch. 1.

PROJECTED STATIONS: Television Centres:

RSFSR: Abakan ch. 1 - Astrakhan ch. 1 - Berezniki - Grozny - Ulan Ude - Yoshkar Ola - Komsomolsk ch. 1 - Magnitogorsk ch. 3 - Makhachkala - Petropavlovsk Kamchatka - Khabarovsk - Kursk - Saransk - Magadan ch. 1 - Yuzhno Sakhalinsk - Arkhangelsk - Ordzhonikidze - Cheboksary - Yakutsk - Orenburg - Syktyvkar - Stavropol - Chita - Ukrainian SSR: Vinnitsa - Stanislav - White Russian SSR: Vitebsk - Kazakh SSR: Petropavlovsk - Aktyubinsk ch. 1 - Dzhezh - Kazgan ch. 1 - Balhash - Uzbek SSR: Nukus - Tadzhik SSR: Stalinabad ch. 1 - Turkmen SSR: Ashkhabad ch. 1 - Nebit Dag - Krasnovodsk - Azerbaijan SSR: Nakhichevan - Kirowo-bad.

★ YUGOSLAVIA ★

RADIOTELEVISION YUGOSLAVE (Go.)

FL: By license payments. - AD: 30 mins. per week.

ADDRES: Radiotelevision Yugoslavia: 70/1 Borisa Kidriča, Beograd. Te.: 43-677. - Radiotelevision Beograd: 2, Hilendarska, Beograd. Te.: 24-214. - Radiotelevision Zagreb: 4, Jurišiceva, Zagreb. Te.: 33-741. - Radiotelevision Ljubljana: 17, Tavčarjeva, Ljubljana. Te.: 33-111.

L.P.: Radiotelevision Yugoslavia: Pres. Adm. Committee: D. Popovic. Secr. Gen.: Dr. I. Pustišek. Head For. Rel.: Mrs. O. Vojvodic. Pres. Prgr. Com. TV: D. Štrbac. Secr. Prgr. Com. TV: M. Vilček. Pres. Tech. Com.: Eng. S. Rojec. Pres. Tech. Sub-Com. TV: Eng. R. Žižic. - Radiotelevision Beograd: Dir. Gen.: D. Popovic. Dir. Prgr. TV: V. Mitrovic. Dir. Tech.: Eng. R. Žižic. - Radiotelevision Zagreb: Dir. Gen.: I. Šibl. Dir. Prgr. TV: D. Štrbac. Dir. Tec.: V. Trs. - Radiotelevision Ljubljana: Dir. Gen.: D. Seliger. Dir. Prgr. TV: L. Pohar. Dir. Tec.: Eng. Z. Pipan.

STATIONS IN OPERATION:

	ch.E kW			ch.E kW	
Beograd		Lisina		6 60/12 W H	
Avala	6 19/4 H	Ljubljana			
Fruška Gora	10 30/6 H	Krivačev	5 6/1.2 H		
Sarajevo		Nanos	6 1.6/0.4 H		
Bjelasnica	6 35 W H	Skalnica	11 36/9 W H		
Zagreb		Kum	11 5/1.2 H		
Sljeme	9 10/2 H	Celje	6 35/7 W H		
Psunj	5 50/10 W H	Pohorje	8 35/7 W H		

D. PRGR.: Common prgr. for Beograd, Zagreb, Ljubljana: Sun.: 09.30-10.30, 20.00-22.30 approx.; Mo., 18.00-22.30 approx.; Tues.: No regular national program; Wed.: 18.00-19.00, 20.00-22.30 approx. Thurs.: 10.30-11.00, 17.30-22.30 approx.; Fri.: 19.00-22.30 approx.; Sat.: 18.00-19.15, 20.00-22.30 approx. In addition to this, there is weekly about 30 h. of extraordinary program (sport events, etc.).

PROJECTED STATIONS: Approx. date of opening: 1961-1962. Ch. E. Po.: H.

Kopaonik ch. 4 - Jastrebac ch. 5 - Avala ch. 6 - Gradište ch. 6 - Subotica ch. 7 - Crni Vrh ch. 8 - Besna Kobila ch. 9 - Rtanj ch. 10 - Goleš ch. 10 - Ovčar-Kablar ch. 11 - Psunj ch. 4 - Grič ch. 5 - Vinokovi ch. 5 - Split ch. 6 - Kozjak ch. 6 - Kalnik ch. 6 - Učka ch. 7 - Srdj ch. 7 - Mirkovica ch. 7 - Čelavec ch. 8 - Osijek ch. 8 - Bjokovo ch. 9 - Gorica ch. 11 - Mali Vlah ch. 5 - Solunska Glava ch. 5 - Turtel ch. 6 - Vodno ch. 7 - Kičevo ch. 9 - Debar ch. 9 - Geverglia ch. 9 - Pelister ch. 10 - Kočani ch. 10 - Titov Veles ch. 11 - Popova Šapka ch. 11 - Kozara ch. 5 - Velež ch. 6 - Sarajevo ch. 8 - Hum ch. 8 - Vlačić ch. 11 - Nikšić ch. 5 - Bjelasica ch. 6 - Ulcinj ch. 6 - Kotor ch. 8 - Lovcen ch. 10.



AFRICA



★ ALGERIA ★

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)

ADDR.: 10 rue Hoche, Alger. - L.P.: See Sound Broadcasting.

STATIONS: Def.: 819: Algiers ch. F11 0.5/0.13 kW, H, d - Oran ch. F8 50/12 W, H - Tizi-Ouzou ch. F7 0.3/0.1 kW (repeats ch. F11 Algiers) - Chrea ch. F6 (satellite) 50/12 W - Tessala ch. F12 0.5/0.13 kW, H - Constantine ch. F7 50/12 W, H.

D. PRGR.: W. 18.30-22.30. Sun. 13.30-22.30.

PROJECTED STATIONS: Bone, Constantine, Setif, Bougie, Orleansville (all 10 kW); Alger, Oran (20 kW); Amnale (0.5 kW).

★ EGYPT ★

U.A.R. BROADCASTING CORPORATION OF CAIRO (Go.)

FL: By license payments and adv. - **ADDR.:** Radio & TV House, Maspéro Str., Cairo. Cable: Kahivision. Te.: 812070. - **STATIONS:** Cairo 1 Ch. E5 100 kW H. - Cairo 2 ch. E7 20 kW H. - Alexandria ch. E6 24 kW H. - Mansoura ch. E8 16 kW H. - **PRGR's:** Cairo 1 & 2: D.: 14.00-22.00; Thurs, Fri. 10.00-22.00. - Projected sr's: Aswan ch. E5 12 kW H - Bush ch. E9 3.5 kW H - Maghagha ch. E6 3.5 kW H - El-Minya ch. E9 3.5 kW H - Dayrut ch. E5 3.5 kW H - Assiut ch. E7 3.5 kW - Port Said ch. E6 3.5 kW H - Ismalia ch. E9 3.5 kW H - Suez ch. E6 3.5 kW H.

★ NIGERIA ★

WESTERN NIGERIA RADIOVISION SERVICE

(Comm. with d. two h. education prgr.s)

FL, AD, ADDR. and L.P.: See Sound Broadcasting.

STATIONS: Abafon (Lagos) ch. E3 15/4 kW H - Ibadan ch. E4 1.5/0.4 kW H.

D. PRGR.: Test tr.s: Mo.-Fri.: 09.30-10.00, 10.30-12.00. Sat. 08.30-11.00. D. 16.30-17.30. - School prgr.s: Mo.-Fri.: 10.00-10.30, 12.00-13.00. - Evening prgr.s: D. 17.30-21.30.

TELEVISION EASTERN NIGERIA BROADCASTING LTD. (Comm.)

ADDR.: See Sound Broadcasting. - **STATION:** Enugu ch. E2 0.1 kW.

D. PRGR.: D. 18.00-21.00.

★ RHODESIA AND NYASALAND ★

FEDERAL BROADCASTING CORP. OF RHODESIA AND NYASALAND (Go., Comm.)

The controlling authority for TV in the Federation is the Federal Broadcasting Corp., who owns and operates the TV transmitters. Rhodesia Tele-Vision Ltd. is the prgr. contractor to the FBC and is charged with day-to-day running of the TV prgr.service.

ADDR.: P.O. Box 2696, Salisbury. Cable: Broadcasts. Te.: 25685. L.P.: Dir. Gen.: J. McClurg. Chief Eng.: J. M. Reeves, M.I.E.E., M.I.R.E.

STATIONS: C.C.I.R. System: Salisbury ch. E4 20/4 kW - Bulawayo ch. E3 1.5/0.3 kW H - Kitwe ch. E4 (to be completed 15/12 1961).

D. PRGR.: Mo.-Fri. 15.55-20.15. Sat. 15.55-21.00. Sun. 14.55-21.15. Prgr. Contractor: Rhodesia Tele-Vision Ltd. (Comm.). Operates via income from adv.s and pays F.B.C. a fee for use of tr. Spot adv.s totalling 10% of total transmitting times. - **ADDR.:** Pockets Hill, Borrowdale, Salisbury. Cable: Teevee. Te.: 46157. - L.P.: Gen. Mgr.: H. W. Jackson. Chief Eng.: M. N. Smuts. Operations Mgr.: W. A. Holmes.



ASIA



★ CAMBODIA ★

RADIO CAMBODGE-TELEVISION

ADDR. & L.P.: See Sound Broadcasting. - **STATION:** Polarisation: Negative RETMA System. Phnom-Penh 174.25/179.25 mc/s 5/2.5 kW.

D. PRGR.: Experimental prgr's. Regular service from March 1962.

★ THE PEOPLES REPUBLIC OF CHINA ★

STATIONS:

	Vision Sound Mc/s Mc/s	Vision Sound Mc/s Mc/s	Vision Sound Mc/s Mc/s
Peking		Shanghai 93.25 99.75	Changchun 57.75 64.25
1st Prgr.	57.75 64.25	Tientsin 77.25 83.75	Canton 57.75 64.25
2nd Prgr.	77.25 83.75	Harbin 49.75 56.25	
Relay Stations:	1'angshan ¹ 85.25 mc/s	91.75 mc/s	Wushih ² 57.75 mc/s
	64.25 mc/s	Soochow ² 57.75 mc/s	64.25 mc/s
		Hangchow ² 57.75 mc/s	64.25 mc/s

¹=relay from Peking. ²=relay from Shanghai.

Television: China – Japan

Experimental Stations:

Experiment	Vision Sound		Vision Sound		Vision Sound			
	Mc/s	Mc/s	Mc/s	Mc/s	Mc/s	Mc/s		
Taiyuan	57.75	64.25	Tsitsihar	57.75	64.25	Nanking	49.75	56.25
Shenyang	93.25	99.75	Hekang	85.25	91.75	Foochow	93.25	99.75
Fushun	49.75	56.25	Sian	49.75	56.25	Wuhan	93.25	99.75
Anshan	57.75	64.25	Lanchow	49.75	56.25	Changsha	57.75	64.25
Kirin	49.75	56.25	Tsinan	77.25	83.75	Chengtu	57.75	64.25
Chiamuszu	49.75	56.25	Hofu	85.25	91.75	Kweiyang	93.25	99.75

★ CYPRUS ★ CYPRUS BROADCASTING CORPORATION (TELEVISION) (CORP.)

FL: Go. subsidised. – ADDR.: P.O. Box 824, Nicosia. Cable: Broadcasts. Te.: 5231. – L.P.: Dir. Gen.: V. I. Markides. Dir. Prgr.: G. G. Mitsides. Dir. Tec.: P. T. Astreos. – STATION: Nicosia ch. E2 1.5/0.3 kW H. – D. PRGR.: D. exc. Mo., Thurs.: 17.00–20.00. – F.PL.: Full coverage of Cyprus.

★ HONG KONG ★ REDIFFUSION HONG KONG (Comm.). – ADDR. & L.P.:

See Sound Broadcasting. – Wired television network covering Hong Kong and Kowloon area, distributing prgr's., incl. O.B.'s. D. Mo.–Fri. 09.00–14.30. Sat., Sun. 06.00–14.30.

★ INDIA ★ ALL INDIA TELEVISION (Go.)

ADDR.: Akashwani Bhawan, 5th Floor, Parliament Street, New Delhi 1. Te.: 30101. – L.P.: Officer on Special Duty: P. V. Krishnamoorthy. Asst. Research Eng.: S. N. Sen.

STATION: New Delhi ch. 4 0.55 kW (experimental).
D. PRGR's: October–March: For Schools: Mo., Sat.: 04.00–04.20, 05.35–05.55, 09.30–10.00, 10.35–10.55. Tues.–Fri.: 04.00–04.20, 09.30–09.50. Social Educational Prgr.: Fri. 13.30–14.40. – April–September: For Schools: Mo., Sat.: 03.30–03.50, 05.05–05.25, 09.00–09.20, 10.00–10.20. Tues.–Fri.: 03.30–03.50, 09.00–09.20. Social Educational Prgr.: Fri. 13.30–14.40.

★ IRAN ★ IRAN TELEVISION (Fr. Comm.)

ADDR.: Av. Pahlavi, Tehran. – L.P.: Founder and Chairman of the Board: Dir. Gen.: H. Sabet. Pres.: I. Sabet. Vice-Pres.: H. Sabet. St. Mgr.: P. Mobasher.

STATIONS: TVI–Tehran ch. A3 4/0.8 kW H – TVA–Abadan ch. A3 4/0.8 kW. – D. PRGR.: Tehran: 14.00–19.30. Abadan: 14.30–18.30.

★ IRAQ ★ TV-STATION OF THE REP. OF IRAQ (Go. Limited comm.)

ADDR.: Ministry of Guidance, Broadcasting House, Salhiya, Baghdad. – L.P.: see Sound Broadcasting. – STATION: Salhiya ch. E8 5/1 kW. – D. PRGR.: 16.00–19.00. Fri. also 07.00–09.00. – F.PL.: TV st's in Baghdad, Mosul, Basrah, Kirkuk, Samara and Amara.

★ JAPAN ★ NIPPON HOSO KYOKAI (Public Corporation, non-comm.)

Special Juridical Person provided in Broadcast Law.
ADDR.: 2-2, Uchisaiwai-cho, Chiyoda-ku, Tokyo. Cable: Radionhk, Tokyo. Te.: (501)4111. – L.P.: See Sound Broadcasting.

MONOCHROME-TV:

Stations: In the field of television, NHK renders two kinds of services, general and educational. The general TV service, through its national network, has an 80% coverage while the educational service, through 13 st.'s, has a 34% coverage.

Call: JO–TV. Po.: H exc. Kainan st. which uses V. – Ch.: J. – Def.: 525. – Color-TV: System NTSC.

¹⁾ Central st. ²⁾ Educ. st. ³⁾ Rel. st. ⁴⁾ Exp. Educ. st. ⁵⁾ Color TV st.

Name	Call	ch.	kW/W	Name	Call	ch.	kW/W
Tokyo ¹⁾	AK	1	50/12.5	Yoshihara ³⁾	–	4	14/3.5W
Tokyo ²⁾	AB	3	50/12.5	Hamamatsu	DG	4	1/0.25
Nagano	NK	9	1/0.25	Hamamatsu ²⁾	DC	2	1/0.25
Nagano ³⁾	–	5	75/18.7W	Fukui	FG	9	3/0.75
Iida ⁴⁾	–	4	250/63W	Toyama	IG	3	3/0.75
Okayasuwa ³⁾	–	4	75/18.7W	Toyama ²⁾	IC	10	3/0.75
Niigata	QK	2	5/1.25	Hiroshima ¹⁾	FK	3	10/2.5
Takada	–	7	75/18.7W	Hiroshima ²⁾	FB	1	10/2.5
Kofu	KG	2	3/0.75	Okayama	KK	5	10/2.5
Osaka ¹⁾	BK	2	10/2.5	Matsue	TK	6	1/0.25
Osaka ²⁾	BB	12	10/2.5	Tottori	LG	3	1/0.25
Kainan ³⁾	–	2	1/0.25W	Onomichi	DP	7	1/0.25
Fukuchiyama ³⁾	–	3	30/7.5W	Hofu	UG	9	1/0.25
Maizuru ³⁾	–	1	50/12.5W	Kure ³⁾	–	11	12/3W
Otsu	–	1	5/1.25W	Hamada	–	2	5/0.125
Nagoya ¹⁾	CK	3	10/2.5	Tsuyama ³⁾	–	2	75/18.7W
Nagoya ²⁾	CB-X	9	10/2.5	Chizu	–	6	0.5/0.125W
Kanazawa	JK	4	3/0.75	Miyoshi	–	6	75/18.7W
Shizuoka	PK	9	1/0.25				

Name	Call	ch.	kW/W	Name	Call	ch.	kW/W
Kumamoto ¹⁾	GK	9	1/0.25W	Wakamatsu	HT	1	1/0.25
Fukuoka	LK	3	10/2.5	Kamaishi ³⁾	–	2	25/6.3W
Kokura	SK	6	1/0.25	Hachinohe ³⁾	–	9	500/125W
Nagasaki	AG	2	1/0.25	Sapporo ¹⁾	IK	3	5/1.25
Sasebo	AT	8	1/0.25	Hakodate	VK	4	1/0.25
Kagoshima	HG	3	5/1.25	Hakodate ²⁾	VB	10	1/0.25
Kanoya ³⁾	–	4	75/18.7W	Asahikawa	CG	9	1/0.25
Oita	IP	2	3/0.75	Asahikawa ²⁾	CC	2	1/0.25
Saeki	–	7	30/7.5W	Nayoro	–	4	250/63W
Miyazaki	MG	8	1/0.25	Obihiro	OG	4	1/0.25
Nobeoka ³⁾	–	4	250/63W	Kushiro	PG	9	1/0.25
Sendai ¹⁾	HK	3	10/2.5	Muroran	IU	9	1/0.25
Sendai ²⁾	HB	5	10/2.5	Muroran ²⁾	IT	2	1/0.25
Akita	UK	9	5/1.25	Otaru ²⁾	–	11	75/18.7W
Yamagata	JG	8	3/0.75	Kitami			
Tsuruoka	JP	3	1/0.25	(Abashiri)	KP	3	1/0.25
Morioka	QG	4	3/0.75	Kitami	–	9	75/18.8W
Morioka ²⁾	QC	8	3/0.75	Matsuyama ¹⁾	ZK	6	5/1.25
Miyako ³⁾	–	4	75/18.7W	Kochi	RK	4	1/0.25
Fukushima	FP	9	3/0.75	Kochi ²⁾	–	6	1/0.25
Fukushima ³⁾	FD	2	3/0.75	Tokushima	XK	3	1/0.25
Aomori	TG	3	5/1.25	Niihama	ZQ	2	250/63W
Taira ³⁾	–	4	25/6.3W				

D. PRGR.: General: Mo.–Fri.: 21.30–24.00, 01.00–05.38, 08.30–14.45. Sat.: 21.30–24.00, 01.00–14.50. Sun. 21.30–14.50. – In the afternoon on Sat. and Sun., sports and theatrical plays are broadcast by relay along with movie pictures and other prgrs.
Educational: Mo.–Fri.: 00.37–02.55, 04.00–04.45, 06.30–07.30, 09.25–14.33. Sat.: 00.57–02.55, 04.00–05.00, 09.25–14.33. Sun.: 00.57–02.55, 09.25–14.33.

Daily average broadcasting hours of General TV service total 13 h. 21 min., which is broken down into 24.7% of the total time for news events, 6.7% for educational prgrs. and 37.8% for cultural prgrs., 26.9% for entertainment and 3.9% for sports.

Daily average broadcasting hours for Educational TV total 8 h. and 47 min., which is broken down into 3.3% of the total time for news events, 81.7% for educational prgrs. and 15.0% for cultural prgrs. In the field of Educational TV Sec., school broadcast is delivered daily from Mo. to Fri. at 00.40 to 02.55 and 04.00 to 04.45 and on Sat. at 00.40 to 02.55.

COLOR-TV: Daily average broadcasting hours: Tokyo 1 h. (General), 21 min. (Educ.). Osaka 28 min. (General), 21 min. (Educ.).

F.PL.: NHK is planning to establish a TV st. at each city throughout the country, thus attaining the 100% TV coverage. NHK is also planning to establish a TV st. exclusively for educational broadcast at each of the major cities throughout the country and 12 educational TV st.s from July 1961 to March 1962, thus creating the 2nd TV national network as in the present radio broadcasting.

PRIVATE STATIONS

Call: JO–TV ch. J. * = Color TV.

D. PRGR.: General approx.: W. 23.00/24.00 or from 02.00–05.00, 08.00–15.00. Sun. approx. 23.00 or 00.00–15.00.

Call	ch.	kW	Name
HR	1	80/20	Hokkaido Broad. Co., Sapporo
FX	1	10	Tokai TV Broad. Co., Nagoya
IR	1	10	Tohoku Broad. Co., Sendai
LR	1	3	Kita-Nihon Broad. Co., Toyama
IF	1	10	Kyushu Asahi Broad. Co., Fukuoka
CF	1	5	R. Minami-Nihon Broad. Co., Kagoshima
GR	1	5	R. Aomori Broad. Co., Aomori
¹⁾ FR	4	10	RKB, Mainichi Broad. Co., Fukuoka
OR	4	10	MBS, Mainichi Broad. System, Osaka
AX*	4	50	Nippon TV-Network Co., 14, Nibancho, Chiyoda-ku, Tokyo. Color TV: 20 h. in a week.
²⁾ ER	4	10	R. Chugoku Broad. Co., Hiroshima
³⁾ AR	5	10/12.5	Chubu Nippon Broad. Co., Nagoya
DR	5	5	R. Niigata Inc., Niigata
KX	5	10	Sapporo TV Broad. Co., Sapporo
JF	5	3	R. Yamanishi Broad. Co., Yamanishi
GF	5	3	R. Oita Broad. Co., Oita
DF	6	3	Iwate Broad. Co., Morioka
⁴⁾ KR*	6	375	Tokyo Broadcasting System
⁵⁾ NR*	6	10	Asahi Broad. Corp. TV Station
MR	6	3	Hokuriki Broad. Co., Kanazawa
DX	8	10	Kansai Telecasting Corp., Osaka
CX	8	50	Fuji Telecasting Co., 7, 1-chome Yuraku-cho, Tokyo
KF	9	10	Nishi-Nippon Broad. Co., Takamatsu
AF	10	5	Nankai Broad. Co., Matsuyama
EF	10	3	Yamagata Broad. Co., Yamagata
IX*	10	10	Yomiuri TV Broad. Corp., Osaka. Color TV
EX	10	50	Nippon Educational TV Co., 55, Azabu-Zaimo-kucho, Minato-ku, Tokyo
YR	11	10	Sanyo Broad. Co., Okayama

Call ch kW

TR 11 5 Akita Broadc. System, Akita
PR 11 18 Fukui Broadc. Co., Fukui

→ 21 low power st.'s and 5 satellites.

¹) D. PRGR.: 21.30-14.30. - F.P.L.: Color TV.

²) D. PRGR.: 01.00-04.30, 08.30-14.20. - ³) D. PRGR.: 21.40-15.00.

⁴) ADDR.: 36 Hitotsugicho, Akasaka, Minato-ku, Tokyo. Cable: Jokrtokyo. Te.: 481-8711. - L.P.: Pres.: K. Shikakura. Dir. Gen.: Y. Tanaka, J. Inamichi. Dir. Tec.: K. Endo. - D. PRGR.: W.: 21.55-00.25, 02.30-04.45, 08.15-14.30. Sun. 22.00-14.50. Color-TV: 14 h. in a week.

⁵) ADDR.: Dojima, Kitaku, Osaka. Cable: JONRTV. Te.: 36-1191. - L.P.: See Sound Broadcasting. - D. PRGR.: W.: 21.45-24.00, 02.00-14.30 (Sat. 02.00-16.00). Sun. 22.00-14.35. Color TV: D. 07.00-07.30.

★ KOREA ★

DAI HAN BROADCAST. CORP. (Comm.). Seoul. - L.P.: Dir. Tec.: Kwang Woo. - STATION: HLKZ-TV ch. A9 0.5/0.15 kW. - Off the air (damaged by fire) at present, but uses for half an h. daily the facilities of Armed Forces st. AFKN-TV.

★ LEBANON ★

COMPAGNIE LIBANAISE DE TÉLÉVISION (Comm.)
Fl.: By adv. 25% of the transmission time. - ADDR.: B. P. 4848, Beirut. - L.P.: Pres., Dir. Gen.: General S. Nofal. Asst. Dir. Gen.: W. Ezzedine, R. Uhry. Dir. Prgr.: J.-Claude Boulos. Dir. Tec.: N. Loutfi. - STATION: 5/1 kW, H: Ch. E7 Arabic. Ch. E9 French, English. - D. PRGR.: Ch. 7: 17.00-19.00; ch. 9: 18.00-20.30. - F.P.L.: Tripoli (No. Lebanon) 0.2 kW; ch. E2 (Arabic), ch. E4 (French & English); Bekaa (So. Lebanon) 50/100 kW; ch. E4 (Arabic, French, English) approx. June 1962.

★ MALAYA ★

RADIO MALAYA: Pending favourable cabinet decision TV in Malaya could be in operation within the next two years or so. It is hoped to start off with a two channel service in Kuala Lumpur. The organization to run TV in Malaya has not yet been formed.

★ PHILIPPINES ★

BOLINAO ELECTRONICS CORP. (Comm.) - ADDR.: ABS Bldg., Demey Blvd., Manila. - L.P.: Exec. Vice Pres.: E. Lopez - STATIONS: DYBC TV ch. A3 2/1 kW. - D. PRGR. 08.00-16.00. - DZAO TV ch. A3 2/1 kW. - D. PRGR.: 05.00-16.00.

CHRONICLE BROADCASTING NETWORK (Comm.) - ADDR.: Aduana Str., Manila. Cable: CBN. Te.: 3.00-61. - L.P.: See Sound Broadc. - STATION: DZXL-TV ch. A9 0.2/018 kW. - D. PRGR.: 05.00-15.00.

REPUBLIC BROADCASTING SYSTEM (Comm.) - ADDR.: RBS Bldg., Highway 54, Quezon City. - L.P.: Gen. Mgr.: Loreto F. de Hemedes. STATION: DZBB-TV ch. A7 0.1/0.05 kW. - D. PRGR.: 02.00-16.00.

INTER-ISLAND BROADCASTING CORPO. (Comm.) - ADDR: Trinity Bldg., San Luis St., Manila. - STATION: DZTV ch. A13 1 kW. - D. PRGR.: 07.00-15.00.

PHILIPPINE BROADCAST. SERVICE (Go. with limited comm. prgr.'s) ADDR & L.P.: See Sound Broadcasting. - STATION: DZRP-TV ch. A10 0.75/0.875 kW.

PROJECTED ST.'s: Chronicle Broadc. Network: Bacolod City ch. A2 0.5 kW. Baguio City ch. A2 0.5 kW. Cebu City ch. A3 2 kW. Cagayan de Oro ch. A3 2 kW. Davao City ch. A9 2 kW. - Metropolitan Broadc. Co.: Cebu City ch. A9 1 kW. - Manila Times Publications, Inc.: Davao City ch. A3 10 kW. Cebu City ch. A13 10 kW. - Visayan Broadc. Network: Cebu City ch. A7 0.5 kW. Bacolod City ch. A9 0.5 kW. - Alfred J. Wells: Davao City ch. A7 0.5 kW.

★ RYUKYU ISLANDS ★

OKINAWA TELEVISION BROADCAST. LTD. (Comm.)
ADDR.: 1-chome, Matsuyama-cho, Naha, Okinawa. - L.P.: Pres.: T. Guschichan. Dir. Prgr.: Y. Matayoshi. Dir. Tec.: S. Sakagawa. STATION: KSDW-TV ch. A10 5/2 kW. - D. PRGR.: 07.00-14.30 in Japanese.

RYUKYU BROADCAST. CORP. (Comm.)

ADDR.: CPO Box 4, Naha, Okinawa. - L.P.: See Sound Broadcasting. - STATION: KSAR-TV ch. A12 5/1.75 kW. - D. PRGR.: 08.00-11.30 in Japanese.

★ SAUDI ARABIA ★

ARAMCO-TV (Non-comm.). - Fl.: Non-profit financing by Aramco. ADDR.: Arabian American Oil Company, TV/Radio Division, P.O. 1359, Dhahran. - STATION: HZ22 ch. A2 6/3.15 kW. - D. PRGR.: 3 h. each evening.

★ SYRIA ★

SYRIAN TELEVISION (Go.)
ADDR. & L.P.: See Sound Broadcasting. - STATIONS: Damascus ch. E5 11 kW - Homs ch. E7 2 kW - Sheikh Daher ch. E9 2 kW - Aleppo ch. E5 2 kW - Tartous ch. E11 2 kW. - D. PRGR.: 16.00-22.00

★ THAILAND ★

THAI TELEVISION CO. LTD. (Comm.). - Fl.: By state and adv. - ADDR.: Bang Koon Prom, Bangkok. Cable: Thai TV. - L.P.: Chairman: Gen. Charusreni. Mgr.: P. Hongsanand. - STATION: HST-TV ch. A4 27/4.5 kW, H. - D. PRGR.: 10.30-15.00. - F.P.L.: 17 st's incl. 3 satellites.

THE ARMY TELEVISION STATION (Comm.). - Fl.: By state and adv. - ADDR.: Sanam Pao, Bangkok. Te.: 70428. - STATION: HS-A-TV A7 60/30 kW H. - D. PRGR.: D. 11.00-16.30.

★ TURKEY ★

TEKNIK ÜNİVERSİTESİ (Go., exp.)
Fl.: By the Technical University. - ADDR.: Elektrik Fakültesi, Yüksek Frekans Tekniği Kürsüsü, İstanbul. Te.: 482250. - L.P.: Prof. Dr. A. Ataman. - STATION: Ch. E4 50 Watts, H. - D. PRGR.: Thurs. 15.00-17.00 only during the Academic Year.



PACIFIC



★ AUSTRALIA ★

Standards: Def.: 625. - Frame frequency: 25. - Ch. width: 7 mc/s FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters. - ADDR.: Australian Broadcasting Commission, 264 Pitt Street, Box 487, G.P.O., Sydney. Cable: Abcom Sydney. - L.P.: See Sound Broadcasting

STATIONS: The A.B.C. controls six stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW), and Hobart (ABT). All transmitters operate on Australian ch. 2 on 63-70 mc/s, 100/20 kW.

D. PRGR.: Sun. 04.30-12.30. Mo.-Fri. 06.00-13.00. Sat. 03.30-13.00.

PRIVATE STATIONS (Comm.)

Adv. accepted under conditions of Australian Broadc. Control Board. The first two letters are an abbreviation of the name of the licensee, the third indicates the state and the numeral signifies the channel.

All st's 100/20 kW exc. TVT6 50/10 H.

- 1) TVT6 175.25-180.75 Tasmanian TV Ltd.
- 2) ADS7 182.25-187.75 TV Broadcasters Ltd.
- 3) TVW7 182.25-187.75 TV Ltd.
- 4) HSV7 182.25-187.75 Herald-Sun TV Ltd.
- 5) ATN7 182.25-187.75 Amalgamated Television Services
- 6) BTQ7 182.25-187.75 Brisbane TV Ltd.
- 7) TCN9 196.25-201.75 Television Corp. Ltd.
- 8) GTV9 196.25-201.75 General TV Corporation
- 9) QTQ9 196.25-201.75 Queensland TV Ltd.
- 10) NWS9 196.25-201.75 Southern TV Corp.
- 11) 52 New Town Rd., Hobart, Tasmania. - L.P.: Man. Dir.: E. G. McRae. Dir. Tec.: W. S. Morrison. - D. PRGR.: W. 07.30-12.45 (Fri. 13.10, Sat. 12.30), Tues. also 04.00-06.00. Sun. 04.15-12.35
- 12) 125 Strangways Terrace, No. Adelaide, So. Australia. - L.P.: Gen. Mgr.: K. A. Macdonald. Dir. Tec.: D. M. Gooding. - D. PRGR.: 02.30-14.00 (approx.)
- 13) Osborne Park Road, Tuart Hill, We. Australia. - L.P.: Gen. Mgr.: J. W. Cruthers. Dir. Tec.: D. Watson. - D. PRGR.: Mo. 09.00-14.30, Tues. 04.30-06.30, 09.00-14.30, Wed. 04.30-15.30, Thurs. & Fri. 09.00-15.00, Sat. 09.30-15.00. Sun. 09.30-14.30.
- 14) Dorcas & Wells Str., So. Melbourne.
- 15) Television Centre, Epping, NSW. - L.P.: Gen. Mgr.: J. H. Oswin. Dir. Tec.: M. Stevenson. - D. PRGR.: Mo.-Fri. 21.00-23.00, 01.35-13.10. Sat./Sun. 03.00-13.00.
- 16) 241 Adelaide Str., Brisbane.
- 17) Artarmon Rd., Willoughby, Sydney. - L.P.: Gen. Mgr.: K. G. Hall. Dir. Tec.: J. N. Britton. - D. PRGR.: Mo.-Thurs. 00.30-14.00, Fri. 02.00-14.00, Sat. 00.00-14.00. Sun. 03.00-13.30.
- 18) 22 Bendigo Str., Richmond, Victoria.
- 19) Television Centre, Brisbane.
- 20) Tynte Str., No. Adelaide, So. Australia. - L.P.: Gen. Mgr.: W. L. C. Davies. Dir. Tec.: J. Batchelor, B.E. - D. PRGR.: 02.30-14.00.

Projected Stations:

CTC7 Canberra TV Ltd., P.O. Box 377, Canberra - CBN8 Country TV Services Ltd., G.P.O. Box 3650, Sydney (February 1962) - NBN3 Newcastle Broadc. & TV Corporation, P.O. Box 555, Newcastle (Early 1962) - RTN8 Richmond-Tweed TV Ltd., P.O. Box 423, Lismore (March 1962) - WIN4 TV Wollongong Transmissions Ltd., 266 Crown Str., Wollongong (February 1962) - BCV8 Bendigo and C. Victoria Telecasters Ltd., P.O. Box 240, Bendigo (December 1961) - BTV6 Ballarat and Western Victoria TV Ltd., 422 Collins Str., Melbourne (March 1962) - GLV10 Gippsland-Latrobe Valley Telecasters Ltd., P.O. Box 220, Traralgon (December 1961) - GMV6 Goulburn-Murray TV Ltd., 290 Latrobe St., Melbourne (December 1961) -

Television: Australia – Mexico

DDQ10 Darling Downs TV Ltd., P.O. Box 138, Toowoomba (June 1962) – Rockhampton TV Ltd., Quay St., Rockhampton – **TNQ7** Telecasters North Queensland Ltd., P.O. Box 716, Townsville (1962) – **TNT9** Northern TV Ltd., P.O. Box 873, Launceston (April 1962).

★ HAWAII ★

All st.'s comm. – Ch. A. – Po.: Vertical.

HAWAIIAN BROADCASTING SYSTEM, LTD.

ADDR.: P.O. Box 581, Honolulu. – **L.P.:** Gen. Mgr.: M. R. Warren. **STATION:** Honolulu KGMB-TV ch. 9 132/79 kW. – **Satellites:** Wailuku, Maui KMAU-TV ch. 3 6/3 kW. Hilo KHBC-TV ch. 9 1/0.5 kW. Kulani K70BS ch. 70 UHF. Lihue, Kauai ch. 70 UHF. Naalehu K74BA ch. 74 UHF. Kalaheo, Kauai K82AM ch. 82. – **D. PRGR.:** Mo.–Fri. 16.00–10.00. Sat. 01.30–10.00. Sun. 19.00–10.00

KAISER HAWAIIAN VILLAGE TELEVISION, INC.

ADDR.: 1290 Ala Moana Blvd., Honolulu. – **L.P.:** Gen. Mgr.: R. C. Block. – **STATION:** Honolulu KHVH-TV ch. 4 26.3/13.2 kW. – **Satellites:** Hilo KHJK-TV ch. 13 2/1 kW. Wailuku, Maui KMYI-TV ch. 12 30/15 kW. Honohina K76BB ch. 76 UHF. Lihue, Kauai K74BC ch. 74 UHF. – **D. PRGR.:** 19.30–11.30 in E.

RADIO HONOLULU, LTD.

ADDR.: 1170 Auahi St., Honolulu. – **L.P.:** Gen. Mgr.: J. D. Keating. **STATION:** Honolulu KONA-TV ch. 2 60/30 kW. – **Satellites:** Wailuku, Maui KALA-TV ch. 7, Lihue, Kauai K78AR ch. 78 UHF. – **D. PRGR.:** 20.00–10.00 in E, J, F.

★ MARIANAS ISLANDS ★

KUAM TELEVISION (Comm.)

ADDR.: P.O. Box 368, Agaña. Cable: Kuam. – **L.P.:** Dir. Gen.: H. M. Engel. Res. Mgr.: R. A. Jordan. Dir. Tec.: E. Sibayan. – **STATION:** Ch. A8, A10 0.15/0.09 kW V. – **D. PRGR.:** Mo.–Fri. 02.00–13.00. Sat. 22.00–13.00. Sun. 00.00–13.00.

★ NEW ZEALAND ★

NEW ZEALAND BROADCASTING SERVICE (Go.)

FI.: By license payments. – **ADDR.:** P.O. Box 98, Wellington. Cable: Broadserv. Te.: 70999. – **L.P.:** See Sound Broadcasting. **STATIONS:** Def.: 625.

Auckland ch. 2 55.25/60.75 mc/s 0.50/0.25 kW H – Wellington ch. 1 45.25/50.75 mc/s 10/2 kW H – Christchurch ch. 3 62.25/67.75 mc/s 10/2 kW H. – **D. PRGR.:** W. 06.30–10.30. Sun. 06.00–10.00. – **Projected STATION:** Dunedin ch. 2 55.25/60.75 mc/s 10/2 kW H. (Early 1962).



NORTH AMERICA



★ CANADA ★

CANADIAN BROADCASTING CORP. (Publicly owned)

ADDR.: Newfoundland Region: CBYT, P.O. Box E 5372, St. John's – Quebec Region: CBFT, CBMT, 1425 Dorchester Str. West, Montreal – Maritime Region: CBHT, Bell Road, Halifax, Nova Scotia – Prairie Region: CBWT, 541 Portage Ave., Winnipeg, Manitoba – British Columbia Region: CBUT, 701 Hornby Str., Vancouver – Ontario Region: CBLT, 354 Jarvis Str., Toronto. CBOT, CBOFT, P.O. Box 3220, Station "C" Ottawa.

L.P.: Gen. Mgr. Regional Broadcast: Charles Jennings – Newfoundland Region: CBYT: Dir.: W. F. Galgay. Mgr.: C. V. Hierlihy – Quebec Region: CBFT, CBMT: Dir.: Yves Vien. Prgr. Dir.: F. Guerard (CBFT, French), K. F. Davey (CBMT). Dir. Tec.: C. Frenette – Maritime Region: CBHT: Dir.: J. Simonsen. Prgr. Dir.: C. MacCaul – Prairie Region: CBWT: Dir.: W. Carpentier. Prgr. Dir.: B. D. MacPherson. Dir. Tec.: H. Heywood. CBWFT: Dir. Prgr.: L. Remillard. CBXT: St. Mgr.: R. Horley – B. C. Region: CBUT: Dir.: Hugh Palmer. Prgr. Dir.: W. Inglis. Tec. Dir.: R. Whiteside – Toronto Area: CBLT: Dir.: W. R. Graham. Tec. Dir.: R. Horton. Dir. Prgr.: J. Lant. CBOT-CBOFT: Dir.: John Dunn. Prgr. Dir.: Dennis Townsend. Tec. Dir.: J. Book.

CBC Stations: Po.: V. E=English Netw. F=French Netw. Def. 525. **STATION**

Call	ch.A	kW(ERP)	H. of tr. (approx.)
Montreal	CBFT	2 100/50	F 21.30–06.00
Vancouver ¹	CBUT	2 47.6/25.4	E 22.00–09.00
Halifax ²	CBHT	3 56/34	E 18.20–05.15
Winnipeg	CBWT	3 57.8/34.7	E 21.00–06.45
Ottawa	CBOT	4 50.1/26.7	E 21.00–06.30
Corner Brook	CBYT	5 0.19/0.09	E 22.00–05.45
Edmonton	CBXT	5 300	E 22.00–08.00
Montreal	CBMT	6 43.8/26.2	E 20.00–06.00
Toronto	CBLT	6 99.5/53.5	F 21.30–05.45
Winnipeg	CBWFT	6 2.87/1.72	F 23.45–06.00
Sturgeon Fall	CBFT	7 8.75/5.25	F 21.30–06.00
Kenora	CBWAT	8 0.49/0.24	E 21.30–05.45
Ottawa	CBOFT	9 31/17	F 20.45–05.00
Moncton	CBAFT	11 0.60/0.32	E 21.25–04.00

Rebroadcasting st.'s: ¹ CBUAT (Trail, BC) ch. 11 0.164 kW, CBUAT-1 (Nelson, BC) ch. 9 – ² CBHT-1 ch. 12 (Liverpool), CBHT-2 ch. 8 (Shelbourne), CBHT-3 ch. 11 (Yarmouth). Powers each st. 0.41/0.24 kW.

D.PRGR.: Approx. 20.00/22.00–05.00/07.00.

The microwave network is now in operation from St. John's, Newfoundland, to Victoria, British Columbia.

PRIVATE STATIONS (Comm.)

FI.: By adv. * indicates that the st. has a satellite-station.

Call	ch.	kW(ERP)	Location
CKCW-TV*	2	25/15	Moncton, N.B.
CJIC-TV	2	28/15	Sault Ste. Marie, O.
CFCJ-TV	2	100/55.4	Port Arthur, O.
CKCK-TV	2	100/53.5	Regina, Sask.
CHSA-TV	2	14.63/7.3	Lloydminster, Sask.
CHCT-TV	2	100/50	Calgary, Alta.
CJBR-TV*	3	100/56.9	Rimouski, Que.
CKVR-TV	3	100/50	Barrie, Ont.
CFRN-TV	3	180/90	Edmonton, Alta.
CFCN-TV	4	100/50	Calgary, Alta.
CJCB-TV*	4	100/60	Sydney, N.S.
CHSJ-TV	4	100/50	Saint John, N.B.
CJCN-TV	4	86/43	Grand Falls, Nfld.
CFCM-TV	4	12.7/6.3	Quebec, Que.
CKRN-TV	4	50/25	Rouyn, Que.
CHAB-TV	4	54/27	Moose Jaw, Sask.
CJCH-TV	5	58.2/26.4	Halifax, N.S.
CHAU-TV	5	100/52	Carleton, Que.
CKSO-TV*	5	30/16	Sudbury, O.
CKX-TV	5	19.3/9.6	Brandon, Man.
CJFB-TV	5	13.3/6.6	Swift Current, Sask.
CKBI-TV	5	61/36.5	Prince Albert, Sask.
CJON-TV*	6	21/11	St. John's, Nfld.
CFCL-TV	6	18.5/9.25	Timmins, O.
CHCA-TV	6	13/6.5	Red Deer, Alta.
CHEK-TV	6	100/50	Victoria, B.C.
CJAY-TV	7	325/180	Winnipeg, Man.
CHLT-TV	7	312/186	Sherbrooke, Que.
CJLH-TV	7	96.1/44.9	Lethbridge, Alta.
CHAN-TV	8	325/129	Vancouver, B.C.
CJSS-TV	8	260/130	Cornwall, O.
CKNX-TV	8	180/100	Wingham, O.
CFQC-TV	8	180/100	Saskatoon, Sask.
CKBL-TV	9	160/95	Matane, Que.
CKLW-TV	9	178/107	Windor, O.
CFPL-TV	10	325/195	London, O.
CFTM-TV	10	68/34	Montreal, Que.
CKGN-TV	10	51.5/27.7	North Bay, O.
CKWS-TV	11	130/78	Kingston, O.
CHCH-TV	11	150/90	Hamilton, O.
CKRS-TV	12	20/10	Jonquiere, Que.
CHFX-TV	12	260/156	Peterborough, O.
CFCF-TV	12	325/162H	Quebec, Que.
CFCY-TV*	13	79/39.5	Charlottetown, P.E.I.
CJOH-TV	13	152/76	Ottawa, O.
CKTM-TV	13	42.5/21.25	Trois Rivières, Que.
CKCO-TV	13	100/54.4	Kitchener, O.

* 7 st.'s less 10 kW.

D.PRGR.: CFCN-TV: 19.00–07.00 – CFLW-TV: 15.30–06.00.

REDIFFUSION INC.

ADDR.: 6301 Park Avenue, Montreal. Te.: CR 6-2501. – **L.P.:** T. A. Cross, President. R. Chaston, Chf. Engr. – **D.PRGR.:** 12.00–05.00 – **Rediffusion (Lake Superior) Ltd. ADDR.:** Sault Ste. Marie, Ontario. – **L.P.:** E. L. Hollingsworth, Vice Pres. F. King, Manager. – **Argenteuil Cable Inc. ADDR.:** 6301 Park Avenue, Montreal. – **L.P.:** T. A. Cross, President. R. Lunn, Manager.

★ Mexico ★

STATIONS– Call XE— exc. where indicated. Ch. A.

INSTITUTO POLITECNICO NACIONAL (Cultural)

ADDR.: Casa de Santo Tomás, Mexico D.F. – **STATION:** XEIP-TV ch. A11 200/100 kW. – **D.PRGR.:** 23.15–04.30.

TELEVIMEX (Comm.)

ADDR.: Edif. Televicentro, Av. Chapultepec 18, Mexico D.F. Te.: 18-50-20. – **L.P.:** Dir. Gen.: E. Azcarraga. Dir. Tec.: M. A. Pereyra. **STATIONS:** 1) XEUV-TV ch. A2 50 kW H (Mexico City). Relays st.'s: XEQ-TV ch. A9 50 kW H (Paso de Cortés); XEZ-TV ch. A3 10 kW H (Cerro del Zamorano); ch. A12 0.05 kW H (Cerro de Tepetitlán) ch. A13 (Aguascalientes) – 2) XH-TV ch. A4 15/7.5 kW H (Mexico City). Relay st.'s: XEX-TV ch. A7 22.5 kW H (Altomoni); ch. A6

10 kW H (Cerro del Zamorano) - 3) XHGC-TV ch. A5 15/7.5 kW H (Mexico City) - 4) ch. A12 (San Antonio, Texas, USA).
D.PRGR.: 1) W. 13.45-20.00, 22.00-06.30. Sat./Sun. 15.00-17.30, 21.15-06.00. - 2) W. 20.30-07.00. Sat./Sun. 14.45-20.00, 21.55-06.15. - 3) D. 21.15-06.15.

TELEVISORA DE OCCIDENTE (Comm.)

ADDR.: Alemania 285, Guadalajara, Jal. - **L.P.:** Dir. Gen.: M. Coso Y. Dir. Tec.: A. Serchant H.
STATION: XEWO-TV ch. A2 15/7.5 kW H. - **XEG-TV** ch. A4 5/2.5 kW. **D.PRGR.:** 17.45-06.45.

TELEVISORA DE HERMOSILLO (Comm.)

ADDR.: Apt. Postal 603, Hermosillo, Son. Te.: 3-66-66. - **L.P.:** Dir. Gen.: R. Azcarraga R. R. Dir. Tec.: A. Tellez. - **STATION:** XEWH-TV ch. A6 1.4/0.2 kW. - **D.PRGR.:** 23.00-07.00.

CADENA TELEVISORA DEL NORTE S.A. (Comm.)

ADDR.: Privada Alameda y Ruperto Martinez, Monterrey, N.L. - **Te.:** 2-17-90. - **L.P.:** Pres.: A. Azcarraga. Dir. Gen.: M. Quintanilla. **STATIONS:** XEFB-TV ch. A3 15/7.5 kW H, XHX-TV ch. A10 84/42 kW H. - **D.PRGR.:** XEFB-TV: 17.45-06.15, XHX-TV: 21.30-05.45.

TELEVISION TAPATIA S.A. (Comm.)

ADDR.: Guadalajara, Jal. - **L.P.:** Pres.: A. Diaz. Dir. Gen.: F. Vallarta. - **STATION:** XEHL-TV ch. A6 15/7.5 kW II - **D.PRGR.:** 17.45-07.00.

RADIO TELEVISION S.A. (Comm.)

ADDR.: Ca. Quinta 210, Despacho 14-16, Tijuana, B. C. - **STATION:** XETV ch. A6 35 kW.

TELEVISION DE LA FRONTERA (Comm.)

ADDR.: Vicente Guerrero 704, Ci. Juarez, Chih. - **STATION:** XEJ-TV ch. A5 3.65 kW.

TELEVISION DE NUEVO LAREDO (Comm.)

ADDR.: Aldama 2611, Nuevo Laredo, Tam. - **STATION:** XEFE-TV ch. A11 0.15 kW.

TELEVISION DE MEXICALI S.A. (Comm.)

ADDR.: Apt. Postal 1356, Mexicali, B. C. - **STATION:** XEM-TV ch. A11 5 kW.

TELEVISION DE LA LAGUNA S.A. (Comm.)

ADDR.: Torreón, Coah. - **STATION:** XELN-TV ch. A4 0.5 kW H.

TELEVISORA DEL GOLFO S.A. (Comm.)

ADDR.: Colon 104 Sur, Tampico, Tam. - **L.P.:** Dir. Gen.: F. Azcarraga. Dir. Tec.: P. Máquez J. - **STATION:** XHGO-TV ch. A7 14/5 kW H. - **D.PRGR.:** 23.15-06.00.

TELEVISION DE CALIMEX S.A. (Comm.)

ADDR.: Tijuana, B. C. - **STATION:** XENF-TV ch. A12 5 kW H.

TELEVISORA DE CHIHUAHUA (Comm.)

STATION: XERA-TV ch. A11 50 W H d.

TELEVISION DEL NORTE S.A. (Comm.)

ADDR.: Apt. Postal 1833, Monterrey, N. L. Te.: 2-62-00. - **L.P.:** Dir. Gen.: G. M. de la Garza. Dir. Prgr.: C. Ameen. Dir. Tec.: F. Ruiz. **STATION:** XET-TV ch. A6 108/54 kW. - **D.PRGR.:** 21.25-06.00.

TELEVISION DE CIUDAD JUAREZ (Comm.)

ADDR.: Apt. Postal 271, Ci. Juarez, Chih. - **L.P.:** Pres.: S. M. Molinar Fernández. - **STATION:** XEPM-TV ch. A2 10 kW.

★ UNITED STATES OF AMERICA ★

	Authorized	Licensed	Operating
TV commercial st's:	650	487	543
TV educational st's:	67	43	54

EDUCATIONAL TV-STATIONS

The 64 operating TV educational stations are mainly situated in the large cities and university centres. They are of three types: 1) Community stations supported by voluntary funds; 2) University stations supported by State and local budgets; 3) State-owned networks covering entire divisions of the country supported entirely by taxation. An interesting development for educational purpose is closed-circuit TV, limited to universities and to individual school-systems. A prgr. see. known as the National Educational Television and Radio Center located at Coliseum Bldg., Columbus Circle, New York City, N.Y., supplies educational TV prgrs. to the present stations and in addition, distributes its prgr's to both closed circuit and film projectors which are in use in thousands of schools.

THE ARMED FORCES RADIO & TELEVISION SERVICE

A: Army. AF: Air Force. N: Navy. RCA: Royal Canadian Army. **AREAS:** ch.A:

					ch. Watt
Alaskan					
Adak	N	8	200		
Ft. Greely	A	8	200		
Kodiak	N	8	200		
Wildwood	A	8	100		
Caribbean					
F. Clayton ²⁾	A	8	200		
Ramey ¹⁾	AF	21	100		
Guantanamo ³⁾	N	8	200		
F. Davis ⁴⁾	A	10	200		
Roosevelt Rds. ¹⁾	N	8	10		
N. Atlantic					
Goose Bay ⁴⁾	AF	8	150		
Stephenville ¹⁾	AF	8	200		
Sondrestrom ⁷⁾	AF	8	200		
Thule AFB ²⁾	AF	8	50		
Keflavik ⁹⁾	N	8	50		
E. Harmon AFB ¹⁾	AF	8	200		
Lajes Field ⁹⁾	AF	8	50		
Pacific					
Midway	N	11	25		
N. African					
Tripoli ¹⁴⁾	AF	8	100		
Asmara ¹¹⁾	A	8	50		
European					
Spangdahlem ¹²⁾	AF	22	1000		
Iraklion ¹⁴⁾	AF	8	100		
Ramstein ¹³⁾	AF	26	1000		
N. EA., EA., Far EA.					
Tehran ¹⁵⁾	A	8	500		
Dahran ¹⁵⁾	AF	8	200		
Okinawa ¹⁷⁾	AF	8	5kW		
Seoul ¹⁸⁾	A	3	500		
Camp Kaiser ¹⁸⁾	A	3	500		
Chuncheon ¹⁸⁾	A	3	50		
Paju-Ri ¹⁸⁾	A	12	50		
Camp Casey ¹⁸⁾	A	12	100		
Osan ¹⁸⁾	A	12	50		
Uijong-Bu ¹⁸⁾	A	12	200		
Clark AFB ¹⁹⁾	AF	8	200		
Misawa AFB ¹⁹⁾	AF	72	30		

1) Puerto Rico. 2) Panama Canal Zone. 3) Cuba. 4) Canada. 5) Azores. 6) Bermuda. 7) Greenland. 8) Iceland. 9) Marshall Isl. 10) Libya. 11) Eritrea. 12) Saudi Arabia. 13) Germany. 14) Greece. 15) Iran. 16) Japan. 17) Ryukyu Isl. 18) Korea. 19) Philippines.

AMERICAN BROADCASTING CO., 7 West 66th St., New York 23, N.Y. Te.: See Sound Broadcasting. - **L.P.:** A. B.-PT. Pres.: L. H. Goldenson. Pres. of TV-network: O. Treys. Vice Pres.: in charge of Press Inf.: M. J. Foster. - **Owned and operated st.'s:** WABC-TV, New York. WBKB-TV, Chicago. WXYZ-TV, Detroit. KABC-TV, Los Angeles. KGO-TV, S. Francisco.

COLUMBIA BROADCASTING SYSTEM INC., 485 Madison Av., New York 22, N.Y. Te.: See Sound Broadc. - **L.P.:** Pres. CBS-TV Network Division: J. T. Aubrey. Dir. Inf. Sec's: H. Berk. - **Owned and operated st.'s:** WCBS-TV, New York. WBBM-TV, Chicago. KNXT, Los Angeles. WCAU-TV, Philadelphia. KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY, INC., RCA Building, New York 20, N.Y. - **L.P.:** Chairman of the Board: R. W. Sarnoff. Pres.: R. E. Kintner. Exec. Vice Pres. TV network: W. D. Scott. Vice Pres. Corporate Affairs: L. Bernstein. - **Owned and operated st.'s:** WNBC-TV, 30 Rockefeller Plaza, New York 20, N.Y. - **WRC-TV,** 4001 Nebraska Ave., Washington 16 D.C. - **WNBQ,** Merchandise Mart, Chicago 54, Ill. - **WRCV-TV,** 1619 Walnut Str., Philadelphia 3, Pa. - **KRCA,** Sunset and Vine, Hollywood 28, Cal.

Call	ch.A	kW	★ PUERTO RICO ★
WKAQ-TV	2	100/50	Comm. exc. Dept. of Education
WIPM-TV	3	35.5/17.8	El Mundo Inc., Box 1072, San Juan.
			Dept. of Education of P. R., Hato Rey, San Juan.
WAPA-TV	4	56.39/33.9	Ponce de Leon Broadc. Co. Inc. of P. R., 357 Ponce de Leon Ave., San Juan.
WORA-TV	5	29.5/15.5	Supreme Broadc. Co. Inc. of P. R., Box 43, Mayaguez.
WIPR-TV	6	100/50	Dept. of Education of P. R., Hato Rey, San Juan.
WRIK-TV	7	1.4/0.7	Ponce TV Corpo., Darlington Bldg., Ponce.
WSUR-TV	9	0.83/0.42	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. in Villalba.
WKBM-TV	11	2.71/13.5	American Colonial Broadc. Corpo., Box 4189, San Juan. Tr. Caguas.
WOLE-TV	12	33.1/16.6	Wester Broadc. Corpo. of P. R., Box 2050, San Juan. Tr. in Pico Atalay, A. Ricon.

D. PRGR.: Approx. 17.00-20.00 to approx. 02.00-04.00.



CENTRAL AMERICA



★ BERMUDA ★

BERMUDA RADIO & TELEVISION CO., LTD. (Comm.)
FI.: By adv. - **ADDR.:** Radio Centre, Hamilton. Cable: ZBM-TV, Te.: 1-3117. - **L.P.:** Man. Dir.: W. Staskow. St. Mgr.: K. Belton. Production Mgr.: W. Davidson. Dir. Tec.: J. H. (Bert) Spersholt. - **Station:** ZBM-TV ch. A10 4/2 kW H. - **D. PRGR.:** D. 21.00-04.00, Mo.-Fri. also 11.30-13.00.

Television: Costa Rica - Brazil

★ COSTA RICA ★

TELEVISORA DE COSTA RICA LTDA. (Comm.)

ADDR.: Apt. 3876 San José. Cable: Televisión. Te.: 2537. - L.P.: Dir.: R. Picado E. C. M. Reyes Z. - STATION: TI-TVCR ch. A7 3.2/1.6 kW. - D. PRGR.: 22.00-04.00.

"TIC-TAC" TELEVISION (Comm.)

ADDR.: Apt. 4666, San José. Te.: 3283. - L.P.: Dir.: A. Vargas V. - STATION: ch. A9 1.2/0.6 kW.

PROJECTED STATION: Televisora Cultural Universitaria.

★ CUBA ★

CM-	ch.	A	kW	H	Name and address
KU-TV	2	13.7/6.9			Circuito CMQ, Stgo. de Cuba
JA-TV	2	14.3/4			Cadena Nacional, St. Clara
KJ-TV	3	27.5/13.7			Circuito CMQ, Holguin
H-TV	3	31/8			Cadena Nacional
BF-TV	4	100/50			Cadena Nacional, Habana
J-TV	4	25/12.5			Cadena Nacional, Camagüey
HQ-TV	5	25.6/12.8			Circuito CMQ, Sta. Clara
	5	14.3/7.1			Cadena Nacional, Stgo. de Cuba
Q-TV	6	100/50			Circuito CMQ, Habana
JL-TV	6	48.4/24.2			Circuito CMQ, Camagüey
JV-TV	7	18.2/9.08			Circuito CMQ, Ciego de Avila
LR-TV	8	5/1.5**			Cadena Nacional, Holguin
GQ-TV	9	28/7			Circuito CMQ, Matanzas
G-TV	13	32/14			Cadena Nacional, Matanzas
-	73	32/8			Cadena Nacional, Victoria de las Tunas (Satellite)

CMQ-TV: ADDR. & L.P.: See Sound Broadcasting. - D. PRGR.: 16.00-19.30, 21.00-04.30.

CMBF-TV: ADDR.: Mazón y San Miguel, Habana.

★ DOMINICAN REPUBLIC ★

LA VOZ DOMINICANA-TV (Comm.)

ADDR.: Calle Miami, Ci. Trujillo. Cable: Dominicana. - STATION: HIT-TV ch. A4 5 kW - Satellites: La Cumbre ch. A9 500 W. Santo Cerro ch. A2 5 kW.

RAHINTEL (Comm.)

ADDR.: Feria de la Paz, Ci. Trujillo. Te.: 31011. - L.P.: Dir. Gen.: P. P. Bonilla P. Dir. Tec.: A. J. Soto. - STATION: HIN-TV ch. A7 1/0.6 kW. - D. PRGR.: 23.05-02.05.

★ EL SALVADOR ★

TELEVISION SALVADOREÑA S. A. (Comm.)

ADDR.: Apt. 1006, San Salvador. Cable: Televisa. Te.: 7331. - L.P.: Gen. Mgr.: V. C. Barriere. - STATIONS: YSEB-TV ch. A6 1.5 kW, YSDR-TV ch. A8 40/20 kW. - D. PRGR.: 18.00-20.00, 22.30-03.00.

RADIO TELEVISION YSU, S. A. (Comm.)

ADDR. and L.P.: See Sound Broadcasting. - STATIONS: YSU-TV ch. A4 70/40 kW H. - D. PRGR.: 18.00-20.00, 23.30-04.30.

Planned station: YSY-TV Television Nacional, Avda. Sur 1, San Salvador. Ch. A2.

★ GUATEMALA ★

TELEVISION NACIONAL (Go.)

ADDR.: Edif. de la Tipografía Nacional, Ca. 18 de Septiembre y 7a Ave. Sur, Guatemala. Te.: 25045. - L.P.: Dir. Gen.: C. T. y Murga. Dir. Tec.: M. Mazariegos. Chief of TV Prod.: M. P. Santa Arandi. - STATION: TGW-TV ch. A8 1/0.5 kW. - D. PRGR.: 00.00-05.00.

RADIO-TELEVISION GUATEMALA, S. A. (Comm.)

ADDR.: Apt. 1367, Guatemala. Cable: Televisión. Te.: 24-1-24. - L.P.: Dir. Gen.: W. G. Campbell. Dir. Tec.: B. de la Torre. - STATION: TG-BOL-TV ch. A3 15/7 kW. - D. PRGR.: 17.45-19.30, 23.30-06.00.

LA VOZ DE CENTRO AMERICA (Comm.)

ADDR.: 7a Av. 1-19, Z-9, Guatemala. - L.P.: Dir.: F. H. Cordon C. STATION: TGTV ch. A11 1/0.5 kW. - D. PRGR.: not yet fixed.

★ HAITI ★

TELE-HAITI (Comm.). - ADDR.: P.O. Box 1126, Port-au-Prince. Cable: Telehaiti. Te.: 2208. - L.P.: Mgr.: A. S. Apaid. Comm. Dir.: G. A. Dabadie. Dir. Tec.: Fd. Gentil. - STATION: Ch. A5 2.5/0.6 kW. - D. PRGR.: W.: 17.00-19.00, 23.00-03.00. Sun. 19.00-01.00.

★ HONDURAS (REP.) ★

RADIO Y TELEVISION HONDUREÑA S. A. (Comm.)

ADDR.: Tegucigalpa. Te.: 12-93, 22-41. - L.P.: Dir. Gen.: M. Brooks H. Tec. Dir.: A. D. Lardizabal. - STATION: HRTW-TV ch. A5 4/2 kW.

★ NETHERLANDS ANTILLES ★

TELECURAÇÃO (Comm.)

ADDR.: P.O. Box 415, Curaçao. Cable: Telecuracao. Te.: 13140. - L.P.: Pres.: G. A. Bartell. Man. Dir.: B. Frank. Dir. Tec.: J. Cornellsen. - STATION: Ch. E8 3.5 kW. - D. PRGR.: 21.00-03.30.

★ NICARAGUA ★

TELEVISION DE NICARAGUA, S. A. (Comm.)

ADDR.: Apdo. 1505, Managua. Cable: Tevenic. Te.: 5404. - L.P.: Dir. Gen.: R. O. Cano. Dir. Prgr.: H. Pascale. Dir. Tec.: Capt. J. Buitrago. - STATIONS: YNSA-TV ch. A8 0.3/0.15 kW, V. - D. PRGR.: 23.30-04.30. YNSA-TV ch. A6 6/3 kW, V.

★ PANAMA ★

CIRCUITO RPC-TELEVISION

ADDR. and L.P.: See Sound Broadcasting. - STATION: HOHM-TV ch. A4 50/25 kW. - D. PRGR.: 21.30-04.30.

TELEVISORA CENTRAL, S. A., PANAMA

ADDR.: Ric. Chiari, Panama. - STATIONS: ch. A2 + A6 0.5/0.25 kW. ARMED FORCES RADIO AND TELEVISION SERVICE: ch. A8 & A10: 19.00-05.00.



SOUTH AMERICA



★ ARGENTINA ★

All stations commercial.
PRIMERA TELEVISORA ARGENTINA S. A. - ADDR.: Av. Alem 735, Piso 40, Buenos Aires. Te.: 32-0101. - L.P.: Dir.: M. A. Etchichury. Dir. Tec.: F. Licht. Chief Eng.: M. Koeble. - STATION: LS82-TV ch. A7 40 kW. - D. PRGR.: 17.15-03.00. Relay St.: Rosario ch. A7.

CA-DE-TE S. A. - ADDR.: Av. F. Alcorta 3428 y Castex 3345, Buenos Aires. Te.: 72-3073. - L.P.: Dir.: C. G. Lowe. Gen. Mgr.: P. Kenney. Dir. Tec.: H. Wessenberg. Chief Eng.: Ing. Estimati. - STATION: LS83-TV ch. A9 40 kW. - D. PRGR.: 15.45-03.00.

TELEONCE S. A. - ADDR.: Calle Pavon 2444, Buenos Aires. Te.: 30-4719. - L.P.: Dir.: A. N. Pentreath. - STATION: LS84-TV ch. A11 120 kW. - D. PRGR.: 21.00-03.00.

RIO LA PLATA S. A. - ADDR.: San Juan 1160, Buenos Aires. Te.: 27-3601. - L.P.: Dir.: O. L. Massa. Dir. Tec.: L. Barquini. - STATION: LS85-TV ch. A13 120 kW. - D. PRGR.: 09.55-03.00.

DIFUSORA MARPLATENSE S. A. - ADDR.: Av. Luro 2907, Mar del Plata. - L.P.: Gen. Mgr.: G. N. Scarano. Dir. Tec.: R. Casanova. - STATION: LU86-TV ch. A8 5 kW. - D. PRGR.: 20.30-01.30.

SOCIEDAD DIFUSORA MENDOZA S. A. - ADDR.: Garibaldi 7, Piso 5°, Mendoza. - L.P.: Dir. Gen.: A. Anguita. Dir. Tec.: H. Bartolomedi. - STATION: LV89-TV ch. A7 15 kW. - D. PRGR.: 20.30-01.30.

TELECOLOR (experimental) - ADDR.: Av. Gral. Paz 266, Góndoba - L.P.: Mgr. J. A. Smith. - STATION: LU1H ch. A12 5 kW. - D. PRGR.: 22.30-02.30.

★ BRAZIL ★

TV-STATIONS IN OPERATION:

Rio de Janeiro, Guanabara

1) TELEVISAO-TUPI (Comm.). - ADDR.: Av. João Luiz Alves, 13-Urca, Rio de Janeiro. - L.P.: Dir. Gen.: Dr. N. G. Bastos. Dir. Tec.: Dr. J. P. Bodin. - STATION: ch. A6 25 kW. - D. PRGR.: 15.00-03.00. - Relay st.'s: TV-Mariano Procopio ch. A10, Juiz de Fora, MG. TV-Tupi Difusora ch. A3, Ribeirão Preto, SP.

2) TELEVISAO-RIO (Comm.). - ADDR.: Av. Atlântica 4264, Rio de Janeiro. Cable: Teverio. - L.P.: Pres.: J. B. Amaral. Vice Pres.: J. B. Amaral Filho. Gen. Mgr.: A. C. Leite. Dir. of Prod.: M. Arêas. Dir. Prgr.: P. Amaral. Dir. of Propaganda: W. Clark Bueno. - STATION: ch. A13 36/18 kW H. - D. PRGR.: Mo.-Fri. 20.00-03.00. Sat./Sun. 15.00-03.00. - Relay st.'s: TV-Juiz de Fora ch. A5 5/2.5 kW H, Juiz de Fora, MG; TV-Lafayette ch. A6 5/2.5 kW H, Conselho Lafayette, MG; TV-Guaratingueta ch. A12 5/2.5 kW H, Guaratingueta, SP.

3) TELEVISAO CONTINENTAL (Comm.). - ADDR.: Rua das Laranjeiras 291, Rio de Janeiro. - L.P.: Dir. Gen.: C. Berardo. Dir. Tec.: J. Zaeyen. - STATION: ch. A9 10 kW. - D. PRGR.: 21.00-03.00.

Sao Paulo, SP

4) TELEVISAO TUPI (Comm.). - STATION: ch. A4 25 kW. - D. PRGR.: W. 15.00-03.00. Sun. 12.00-03.00.

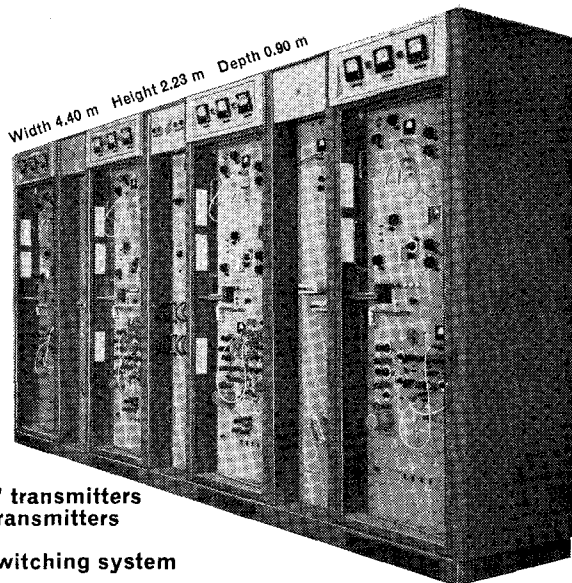
5) TELEVISAO CULTURA (Comm.). - STATION: ch. A2 25 kW. - D. PRGR.: 12.00-01.30.

6) TELEVISAO PAULISTA (Comm.). - STATION: ch. A5 10 kW. - D. PRGR.: W. 18.00-02.00. Sun. 14.08-01.40.

7) TELEVISAO RECORD (Comm.). - L.P.: Pres.: J. B. Amaral. Vice Pres.: P. M. Carvalho. Dir. Gen.: E. A. Amaral Carvalho. - STATION: ch. A7 36/18 kW H. - D. PRGR.: Mo.-Fri. 15.00-02.00. Sat. 15.00-03.00. Sun. 13.00-00.55.

8) TELEVISAO EXCELSIOR (Comm.). - STATION: ch. A9 10 kW. D. PRGR.: Mo.-Fri. 19.00-01.00. Sat./Sun. 18.00-01.00.

FULLY RELIABLE 4 KW TV TRANSMITTER



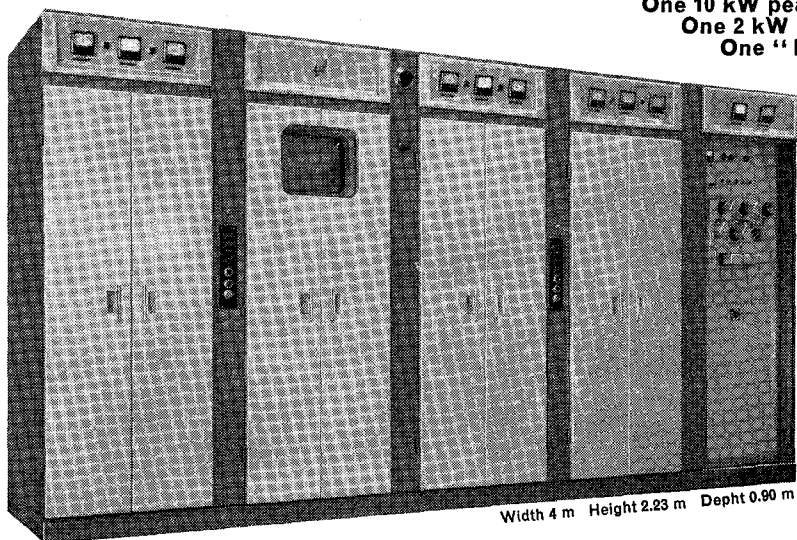
- Two 2 kW peak "picture" transmitters
- Two 500 W FM "sound" transmitters
- Two diplexers
- One stand-by automatic switching system

The power stages are coupled
a pilot chain is in service
and can be switched over to a stand-by pilot chain

DIVISION INTERNATIONALE - 79, BOULEVARD HAUSSMANN - PARIS-8 - ANJ. 84-60



GILBERT BRIDY



- One 10 kW peak "picture" transmitter
- One 2 kW FM "sound" transmitter
- One "Picture-Sound" diplexer
- One maintenance rack

10 KW TV TRANS- MITTER

RAPY

Television: Brazil - Venezuela

9) TELEVISAO-TUPI (Comm.). Ribeirão Preto, SP. - STATION: ch. A3 1 kW. - D. PRGR.: relaying TV-Tupi, São Paulo, exc. 21.00-23.00 when indepent prgr.

10) TELEVISAO BAURU (Comm.). Bauru, SP. - STATION: ch. A2 0.5 kW. - D. PRGR.: H. of operation vary (operates in conjunction with TV-Paulista, São Paulo).

11) TELEVISAO ITACOLMI (Comm.). Belo Horizonte, MG. - STATION: ch. A4 10 kW. - D. PRGR.: Mo.-Fri. 20.50-01.00. Sat. 18.45-01.30. Sun. 13.00-01.00. - Linked by microwave with TV-Tupi, Rio; also with São Paulo but inconsistent.

12) TELEVISAO PIRATINI (Comm.). Porto Alegre, RGS. - STATION: ch. A5 14 kW. - D. PRGR.: Mo. 22.00-02.00. Tues. & Sat. 22.00-01.40. Thurs. & Fri. 22.00-01.30. Sun. 13.10-01.00.

Recife, PE

13) TELEVISAO JORNAL DO COMERCIO (Comm.). - STATION: ch. A2 20 kW. - D. PRGR.: Mo.-Fri. 18.05-01.40. Sat. 20.00-23.30. Sun. 18.05-01.15.

14) TELEVISAO CLUBE DE PERNAMBUCO (Comm.). - STATION: ch. A6 25 kW. - D. PRGR.: 19.00-01.00.

15) TELEVISAO ITAPOAN (Comm.). Rua Ferreira Santos, Salvador BA. - L.P.: Dir. Gen.: Dr. O. Tavares. - STATION: ch. A5 6/4 kW. - D. PRGR.: 21.00-02.00.

Brasília, DF

16) TELEVISAO NACIONAL (Go.). - ADDR.: Empresa Incorporada ao Patrimonio Nacional, Brasília, DF. - STATION: ch. A2 2 kW. - D. PRGR.: 22.25-01.30.

17) TELEVISAO BRASILIA (Comm.). - STATION: ch. A6 1 kW. - D. PRGR.: 22.25-01.30. - Relay st.: TV-R. Clube Goiania ch. A6, Goiania, GO.

18) TELEVISAO ALVORADA (Comm.). - STATION: ch. A8 5/2.5 kW H. - D. PRGR.: 22.30-02.00 mostly videotape from TV-Rio.

Curitiba, PA

19) TELEVISAO PARANA (Comm.). - STATION: ch. A6 2 kW.

20) TELEVISAO PARANAENSE (Comm.). - ADDR.: Senador Alencar Guimarães 97, Curitiba, PA. - L.P.: Dir. Gen.: Dr. Nagibe Chede. Dir. Prgr.: R. Ousuluk. Dir. Tec.: O. B. Freire. - STATION: ch. A12 10/5 kW H. - D. PRGR.: W.: 14.00-16.30, 20.00-03.00. Sun. 16.00-03.00.

21) TELEVISAO RADIO CLUBE (Comm.). Fortaleza, CE. - STATION: ch. A2 2 kW.

St.'s 1), 4), 5), 9), 11), 12), 14), 15), 17), 19), 21) belong to Emissoras Associadas (Chateaubriand group).

St.'s 2), 7), 18) belong to "Rede Unidas de Televisão".

St.'s 6), 10) belong to organisation Victor Costa.

PROJECTED STATIONS

TV-Mayrink Veiga, Rio de Janeiro, ch. A2 - TV-Diário Carioca, Rio de Janeiro, ch. A11 (1962) - TV-Globo, Rio de Janeiro, ch. A4 (1962) - TV-Nacional, Rio de Janeiro, ch. A7 - TV-Gazeta, São Paulo, ch. A11 - TV-Bandeirantes, São Paulo, ch. A13 (1962) - TV-Difusora de Santos, Santos, SP, ch. A8 - TV-Marajoara, Belém, PA, ch. A2 - TV-Campos, Campos, ER, ch. A8 5/2.5 kW H (1961) - TV-Volta-Redonda, Volta Redonda, ER, ch. A8 5/2.5 kW H (1961) - TV-Nova Friburgo, Nova Friburgo, ER, ch. A3 5/2.5 kW H (1961) - TV-Coroados, Londrina, PA, ch. A3 - TV-Belo Horizonte, Belo Horizonte, MG, ch. A12 5/2.5 kW H (1961) - TV-Inconfidência, Belo Horizonte, MG, ch. A2 - TV-Londrina, Londrina, PA, ch. A5 5/2.5 kW H (1962) and the following st.'s belonging to "Rede Unidas de Televisão" all of 5/2.5 kW H and located in the state of São Paulo (before the end of 1962): TV-Aragatuba ch. A9, TV-Araquara ch. A9, TV-Avaré ch. A13, TV-Barretos ch. A10, TV-Bauru ch. A5, TV-Campinas ch. A6, TV-Franca ch. A6, TV-Itapetininga ch. A3, TV-Lins ch. A11, TV-Marília ch. A6, TV-Ouinhos ch. A4, TV-Piracicaba ch. A12, TV-Pre. Prudente ch. A2, TV-Ribeirão Preto ch. A7, TV-Santos ch. A8, TV-S. José R. Preto ch. A8, TV-Tupa ch. A13.

★ CHILE ★

UNIVERSIDAD CATOLICA (Educational). - ADDR.: Alameda Bernardo O'Higgins 340, Santiago, Te.: 30091. - L.P.: Dir. Gen.: P. Caraball. Dir. Tec.: E. Olea. - STATION: Ch. A13 3/1 kW H. - D. PRGR.: 23.00-01.00.

UNIVERSIDAD DE CHILE (Educational). - ADDR.: Santiago. - L.P.: Dir. O. Raul Aicardi. Dir. Tec.: B. Dezerega. STATION: Ch. A9. - D. PRGR.: Tues. and Fri. 23.30-01.30 (exp.).

UNIVERSIDAD CATOLICA, Valparaiso. - STATION: Ch. A12 (exp.).

★ COLOMBIA ★

R. TELEVISORA NACIONAL (Go.). - FL.: By state and adv. - AD.: 40% of prgrs. are non-comm. remainder carry comm. announcements. - ADDR.: Direccion General de la Radiotelevisora Nacional de Colombia, Apartado Nacional 1824, Bogota. - L.P.: Dir. Gen.: F. Restrepo S. Dir. Tec. and For. Rel.: W. Puth. Stations: All st.'s owned by Televisora Nacional. - Call: HJRN-TV.

	ch. kW		ch. kW
Bogota	A9 45/225d	Cali	A7 120/30d.
Medellin	A3 25/12.5d	Cali ¹	A10 10/2W.
Manizales	A9 100/50d	Manjui	A7 400/200 ²
Alto Magdalena	A7 600/300d	Madrono	A11 80/40

	ch. kW		ch. kW
El Quindio	A9 40/20	Valle del Cauca ¹	A7 60/30
Boyaca	A7 20/10d.	Paz del Rio ¹	A7 150/40W.
Tynja	A10 20/5	Bucaramanga ¹	A10 5/2

1) Satellite st.'s. 2) Exp. 3) Relay. - Under construction: C. Quemado ch. A4 900/400 kW - El Carmen de Bolívar ch. A10 40/20 kW - Montecaria ch. A7 100/50 kW - Las Jurisdicciones ch. A5 200/50 kW - Neiva ch. A9 100/50 kW - Purace ch. A11 40/20 kW - Galeras ch. A2 5/2.5 kW. - Pasto ch. A2 50/25 kW - Popayan ch. A11 50/25 kW - Santa Maria ch. A7 40/20 kW.

D.PRGR.: 20.00-21.00, 23.30-04.30.

★ ECUADOR ★

LA VOZ DE LOS ANDES - TELEVISION

(Priv., non-comm., cult.)

ADDR & L.P.: See Sound Broadcasting. - STATION: HCJB-TV ch. A2 5/0.25 kW H. - D. PRGR.: Wed., Fri., Sun. 00.30-02.30. - F.P.L.: Increase progr.time to every weekday.

★ PERU ★

Cultural:

MINISTRY OF EDUCATION, Ministerio de Educación Publica Lima. - L.P.: Dir. Gen.: S. Romero C. Dir. Tec.: I. Aquis C. - STATION: OAD-TV ch. A7 0.1/0.05 kW. - D. PRGR.: 22.00-23.00.

Commercial:

TELEVISORA AMERICA, P.O. Box 1192, Lima. Te.: 33167. - L.P.: Mgr.: N. Gonzalez. - STATION: ch. A4 6/3 kW. - D. PRGR.: 17.00-05.00. - F.P.L.: St. in Lima ch. 4 1/1 1962, st's in Trujillo, Chiclayo, Piura in 1962.

TELEVISORA PANAMERICANA, Ave. Arequipa 1110, Lima. Te.: 46-206. - L.P.: Mgr.: G. Delgado Parker. Dir. Tec.: M. Florez. - STATION: ch. A13 4/2 kW (to be increased to 50 kW). - D. PRGR.: 17.00-05.00. - F.P.L.: During 1962 st.'s in Arequipa (ch. 2), Piura (ch. 7), Chiclayo (ch. 9), Trujillo, Chimbota & Ica (ch. 7).

TELEVISORA EL SOL, José Galvez 1040, Lima. - STATION: ch. A9 10/5 kW.

TELEVISORA SUR PERUANA, P.O. Box 514, Arequipa. Cable: Industrial. Te.: 3090. - L.P.: Dir. Gen.: Dr. G. Quintanilla P. Dir. Tec.: E. Tschischke. - STATION: ch. A2 0.1/0.06 kW H. - D. PRGR.: 21.15-04.30.

PROJECTED STATIONS:

TELEVISORA VICTORIA, Av. Tacna, Lima. - L.P.: Mgr.: J. E. Caverro. - STATION: ch. A2. - D. PRGR.: scheduled to operate December 1961.

TELEVISORA EXCELSIOR, Ave. Manco Capac, Lima. - L.P.: Mgr.: A. Belmont. - STATION: ch. A11. - D. PRGR.: scheduled to operate March 1962.

★ URUGUAY ★

SAETA Sociedad Anonima Emisoras de Television y Anexos (Comm.) ADDR.: Avda. Uruguay 1031, Montevideo. Cable: Saeta. Te.: 9-72-80. - L.P.: Dir. Gen.: R. Fontaina. Dir. Prgr.: R. Fontaina Jr. Dir. Tec.: J. A. Gatti. - STATION: CXA-TV ch. A10. - D. PRGR.: W. 21.00-03.30. Sun. 12.00-16.00, 21.00-03.30.

MONTECARLO TV (Comm.). - ADDR.: Av. 18 de Julio 1855, Montevideo. Cable: Monte Carlo. Te.: 40-21-46. - L.P.: Dir. Gen.: H. Romay S. Dir. Tec.: F. Ellices. Dir. Prgr.: F. Simoni. - STATION: CXA-TV ch. A4 25/12.5 kW H. - D. PRGR.: 16.00-03.00.

PLANNED STATIONS:

TELEVISORA LARRANAGA S. A. (Comm.). - ADDR.: Montevideo. - L.P.: Pres.: G. Otero. Dir. Tec.: M. Giampietro. - STATION: CXA12-TV ch. A12 25/12.5 kW. - D. PRGR.: to begin operation March 1962.

SERVICIO OFICIAL DE DIFUSION RADIO ELECTRICA (SODRE - Go.) ch. A6 32.5 kW - CXA-TV-12 100 kW.

★ VENEZUELA ★

TELEVISORA NACIONAL (Go.) Cerro Marin, Caracas. - Station: Def. 625 YVKA-TV ch. A5 37.2/18.6 kW. - D.PRGR.: 22.00-03.30.

CORPORACION VENEZOLANA DE TELEVISION S. A. (Comm.). - ADDR.: Avda. S. Juan Francisco de la Salle, La Colina. - STATION: Caracas ch. A4 75/37.5 kW. Repeater st.'s: Maracaibo ch. A4 50/25 kW - Barquisimeto ch. A6 64/32 kW - Puerto La Cruz ch. A6 250/125 kW - Vargas ch. A9 12/6 kW - Carabobo ch. A9 84/42 kW - Curimagua ch. A12 100/50 kW.

R. CARACAS TV (Comm.) Ed. R. Centro, Barcenaz, Caracas. Te.: 41 89 71. - L.P.: Dir. Gen.: A. Espina. Dir. Tec.: J. Marciano. - STATIONS: YVKS-TV ch. A2 62/31 kW. Curimagua: ch. A10 330/165 kW. Maracaibo: ch. A2 500/250 kW. Carabobo: ch. A7 12/6 kW. La Guaira: ch. A7 10/5 kW. Barquisimeto: ch. A3 0.5/0.25 kW. Puerto La Cruz: ch. A7 0.2/0.1 kW. All st.'s satellite to Caracas YVKS-TV. D.PRGR.: 12.30-05.00.

ONDAS DEL LAGO (Comm.), Maracaibo. - L.P.: Pres., Dir. Gen.: N. Vale. Dir. Tec.: I. Salcedo. - STATION: Ch. A13 2/1.5 kW. - D.PRGR.: 20.30-03.30.

R. VALENCIA TV(Comm.), Valencia, Estado Carabobo. - L.P.: Dir.: T. Gubaira. - STATION: Ch. A3 4/2 kW. - D.PRGR.: D. 22.30-04.30.



HISTORY IN THE MAKING

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LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

Alg. = Algeria; Az. = Azores; Aust. = Austria; Belg. = Belgium; Bulg. = Bulgaria; C. Isl. = Canary Islands; Cyp. = Cyprus; Czecho. = Czechoslovakia; Den. = Denmark; F. = France;

Faeroe. = Faeroe Islands; Finl. = Finland; G. = Germany; Gr. = Greece; Gt. Br. = Great Britain; Holl. = Holland; Hung. = Hungary; Icel. = Iceland; It. = Italy; Mon. =

Monaco; Mor. = Morocco; No. = Norway; Port. = Portugal; Rum. = Rumania; REM = Red de Emisoras del Movimiento; Sp. = Spain; Sw. = Sweden; Switz. = Switzerland.

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
151	1987	500	Moscow I - USSR	570	526	25	Godthaab - Greenl.	683	439	225	Madrid (RNE) - Sp.
—	1986	50	Hamburg (Deutschl. funk) G.	575	522	100	Mühlacker (SDR) - G.	692	433.5	20	Moscow II - USSR
155	1935	10	Tromsø - Norway	—	522	100	Riga - USSR	—	434	20	Nicosia - Cyprus
—	1935	150	Brasov - Rumania	—	521.7	100	Leipzig (DDR) - G.	—	433.8	200	Deutschlands. (DDR) - G.
164	1829	250/500	Allouis - France	—	522	4	Tel Aviv - Israel	—	434	2	Cromer - Gt. Br.
173	1734	1000	Munich (VOA) - G.	584	514	1	Toggourt - Algeria	—	434	150	Moorside Edge Gt.B.
—	1734	500	Moscow I - USSR	—	513.7	1	Paris III - France	—	434	2	Whitehaven - Gt.Br.
182	1648	10	Luleå - Sweden	—	513.7	5	Stax I - Tunisia	—	434	2.5	La Coruna (RNE) - Spain.
—	1648	400	R. Europe I - Saar	—	513.7	25	Aleppo - Syria	—	434	1	Bouira - Alg.
—	1648	120	R. Ankara - Turkey	—	513.7	150	Klagenfurt II - Aus.	701	427.8	2	Norden (NDR) - G.
185	1622	200	Deutschlands. - G.	—	513.7	10	Salzburg II - Aust.	—	427.8	2	Lingen (NDR) - G.
191	1571	150	Motala - Sweden	593	505.9	150	Wien II - Austria	—	428	2	Aachen (WDR) - G.
—	1571	—	Tbilisi - USSR	—	505.8	100	Sundswall - Sweden	—	428	2	Herford (WDR) G.
200	1500	100	Moscow II - USSR	—	505.8	20	Frankfurt (HR) - G.	—	428	150	Istanbul - Turkey
—	1500	400	Droitwich - Gt. Br.	—	505.8	60	Meissner (HR) - G.	—	428	140	Sebaa-Aioun - Mor.
209	1435	150	Kiev I - USSR	—	506	1	Sofia II - Bulgaria	—	428	20	Finmark - Norway
—	1435	100	Reykjavik TFO - Iceland	602	498.4	5	Oujda - Morocco	—	427.2	100	Bratislava - Czecho.
218	1376	200	Oslo - Norway	—	498.4	2	Karl-Marx-Stadt (DDR) - G.	710	422	150	Marseille I - France
—	1376	100	Baku - USSR	—	498	100	Damascus - Syria	—	422	100	Stalino - USSR
227	1322	500	Warsaw I - Poland	—	498.4	20	Lyon I - France	—	422.5	1	Jerusalem - Israel
233	1287	500	Luxembourg I	606	495	20	R. Nord - Intern. W.	719	417.2	135	R. Free Europe - G.
236	1271	100	Leningrad I - USSR	610	491.8	2	Nicosia - Cyprus	—	417.2	—	BBC - Cyprus
245	1224	150	Kalundborg I - Den.	611	491	10	R. Bahrain	—	417.2	25	Norte II - Portugal
254	1181	200	Lahti - Finland	—	491	—	Nürnberg/Grafenwöhr - Germany	—	417.2	150	Östersund - Sweden
263	1141	150	Moscow I - USSR	—	491	140	Kaiserslaut. - G.	—	417.2	2	Aleppo - Syria
—	1141	20/150	R. Wolga - (DDR) - CSI - Czechoslov.	—	491	1	Sebaa-Aioun - Mor.	723	414	50	Jeddah - S. Arabia
272	1102.9	200	Minsk - USSR	—	491	200	Hoefn - Iceland	728	412	25	Klagenfurt I - Aust.
281	1068	100	Bygland - Norway	—	491	100	Berlin I (DDR) - G.	—	412	150	Athens I - Greece
290	1034	0.25	Tallinn - USSR	—	491	100	Petrozavodsk - USSR	—	412.1	200	Deutschlands. - G.
340	882.4	100	Moscow II - USSR	—	491	100	Sarajevo - Yugosl.	737	407.1	40	Hof (RIAS) - Germ.
347	864	—	Erivan - USSR	620	483.9	300	Cairo IV - Egypt.	—	407.1	100/10	Tel Aviv - Israel
365	820	20	Moscow II - USSR	—	483.9	150	Bruxelles I - Belg.	—	407.1	5	Akureyri - Iceland
385	779	50	Kharkov - USSR	629	477	100	Vigra I - Norway	—	407.1	300	Poznan - Poland
—	779	20	Moscow II - USSR	—	476.9	100	Tunis I - Tunisia	—	407.1	24	Bydgoszcz - Poland
400	750	50	Minsk - USSR	—	476.9	25	Aldrans I - Austria	—	407.1	25	Barcelona - Spain
433	693	10	Oulu - Finland	—	476.9	25	Lauterach I - Aust.	—	407.1	20	Moscow II - USSR
513	584	120	Madrid (RNE) - Sp.	—	476.9	1	Lienz I - Austria	746	402	20	Aleppo - Syria
520	577	2	Braunschweig - (NDR) - Germany	630	476.2	0.25	Erfurt (DDR) - G.	—	402	120	Hilversum I - Holl.
—	577	1	Joensuu - Finland	—	476.2	—	Tehran (AFRS) - Iran	—	402	1	Tlemcen - Algeria
—	577	0.2	Bayreuth (BR) - G.	638	470.5	100	BBC - Cyprus	755	397.3	20	Kuopio - Finland
—	577	0.2	Würzburg (BR) - G.	—	470.5	5	Sevilla (RNE) - Sp.	—	397.3	50	Timisoara I - Rum.
—	577	—	2 low power - G.	—	470.2	150	Praha - Czechoslov.	—	397.3	135	Lisboa II - Port.
—	577	5	Cottbus (DDR) - G.	640	468.8	5	R. Tabriz - Iran	—	397.3	2	Siegen (WDR) - G.
—	576.9	10	Aldrans II - Aust.	647	463.6	100	Strafropol - USSR	764	392.6	150	Sottens - Switzerl.
—	576.9	10	Lienz II - Austria	—	464	150	Daventry - Gt. Br.	—	392.6	10	Odesa - USSR
—	577	0.25	Røra - Norway	—	464	2	4 low power - Gt. Bt.	773	388.1	150	Stockholm - Sweden
522	574.7	—	Riga - USSR	650	461.5	5	Godhavn - Greenl.	—	388.1	2	Malmberget - Swed.
529	561.1	5	Schwerin (DDR) - G.	656	457.3	20	Bolzano I - Italy	—	388.1	50	Valencia - Spain
—	561.1	150	Beromünster - Switz.	—	457.3	180	Florence I - Italy	—	388.1	1	Cairo I - Egypt
539	556.5	135	R. Kossuth - Hung.	—	457.3	80	Napoli I - Italy	—	388.1	0.1/0.05	Salzburg I - Austria
—	556.5	0.05	Bayonne II - F.	—	457.3	35	Torino I - Italy	782	383.6	200	6 low power - Aust.
540	556	0.005	2 low power (AFRS) Italy	—	457.3	10	Venezia I - Italy	—	383.6	100	Deutschlands. - G.
548	547.4	100	Odesa - USSR	—	457.2	20	Deutschlands. (DDR) - G.	—	383.6	100	R. Clube Portu-guese - Portugal
—	547.4	100	Moscow III - USSR	—	457.3	150	Murmansk - USSR	—	383.6	2	Kiev II - USSR
—	547.4	100	Munich (AFN) - G.	—	457.3	100	Tel Aviv - Israel	791	379.2	100	Vatican Radio
—	547.5	20	Colomb-Bechar - Alg.	660	454.5	20	R. Kabul - Afghan.	—	379.2	50	Limoges I - France
557	539	100	Helsinki I - Finland	665	451.2	15	Athens III - Greece	—	379.2	50	Thessaloniki (VOA) - Greece.
—	538.6	50	Cairo III - Egypt.	—	421.2	5	Eidar - Iceland	800	375	100	München (BR) - G.
—	538.6	1	Timisoara II - Rum.	—	451.2	50	Damascus - Syria	—	375	100	Leningrad - USSR
—	538.6	50	M. Ceneri - Switz.	—	451	20	Bad Dürkheim - G.	—	375	5	R. Sevilla - Spain
—	538.5	5	Greifswald (DDR)	—	451	135	Lisboa I - Portugal	—	375	100	Amman - Jordan
—	538.6	1	Guarda - Portugal	—	451	100	Vilnius I - USSR	809	371	100	Burghead - Gt. Br.
—	538.6	1	Faro - Portugal	674	445.1	10	Bodø - Norway	—	371	5	Redmoss - Gt. Br.
—	539	4	Laghout - Algeria	—	445.1	50	Tjernovtsy - USSR	—	371	2	Dumfries - Gt. Br.
—	539	—	Stalingrad - USSR	—	445	150	Rennes I - France	—	371	100	Westerglen - Gr. Bt.
566	530	100	Athlone - Ireland	—	445	0.1/0.05	8 low power - Aust.	—	370.8	135	Skopje - Yugosl.
—	530	10	Caltanissetta - It.	677	443	20	Jerusalem - Jordan	—	370.8	20	R. Madrid - Spain
—	530	20	Freies Berlin - G.	680	441.2	1	R. Rasht - Iran	—	370.8	10	Moscow II - USSR
—	530	0.1/0.05	8 low power - Aust.	683	439	150	Beograd - Yugosl.	—	370.8	5	Aden - Aden
—	530	0.1/0.05	8 low power - Aust.	—	439	100	Berlin/Hof (RIAS)	818	366.7	10	Trieste I - Italy

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
818	366.7	300	Cairo V - Egypt.	980	306.1	2	Assiout - Egypt.	1115	269.1	0.25/0.04	4 low power - No.
—	366.7	300	Warszawa II - Pol.	—	306.1	2	Trieste A - Italy	—	269.1	1	Bergen - Norway
—	367	1	Casablanca - Mor.	—	306.1	150	Göteborg - Sweden	—	269.1	1	Namsos - Norway
—	367	100	Andorradio	989	303.3	300/200	Berlin RIAS - G.	—	269.1	1	Notodden - Norway
820	365.9	5	Frederikshaab - Greenland	—	303.3	8	R. Malaga - Spain	—	269.1	130	Vesterålen - Norway
827	363	100	Sofia I - Bulgaria	—	303.3	10	Beyrouth - Lebanon	1120	267	0.3	R. Cazorla - Spain
—	363	20	Tetuan - Morocco	998	300.6	10	Heidelberg (SDR) G.	1124	266.9	3	Barcelona - Spain
—	363	20	Freiburg (SWF) G.	—	300.6	0.2	Buchen (SDR) - G.	—	266.9	10	Bruxelles II - Belg.
—	363	0.5/1	2 low p. (SWF) - G.	—	300.6	100	R. Andorra	—	266.9	5	Varna - Bulgaria
—	363	3	Sigmaringen - G.	—	300.6	100	Kishinjov - USSR	—	266.9	0.1/0.5	12 low power - Aust.
—	363	10	R. Barcelona - Spain	1000	300	0.5	R. Rezaieh - Iran	—	266.9	20	Leningrad - USSR
—	363	20	Moscow II - USSR	1007	298	120	Hilversum II - Holl.	1130	265	10/100	R. Kuwait - Kuwait
—	363	3	Kaiserl./Sigmar./ (SWF) - Germany	—	298	50	Corfu - Greece	1133	264.8	5	Bilbao EAJ28 - Sp.
—	363	1.5	Baden-Baden (SWF) - Germany	—	298	6	R. Málaga - Spain	—	264.8	135	Zagreb - Yugoslavia
833	360	1	Benghazi (FBS) - Libya	1016	295	120	Rheinsender (SWF)	—	264.8	15	Rijeka I - Yugosl.
—	360	1	Benghazi (FBS) - Libya	—	295	0.05	Batna - Algeria	—	264.7	50	Split - Yugoslavia
836	359	10	Ylivieska - Finland	—	295	1	Tanger - Morocco	1142	262.7	20	Constantine I - Alg.
—	359	150	Nancy I - France	—	295	20	Baku - USSR	—	262.7	40	Oran I - Algeria
—	359	4	Beyrouth - Lebanon	1022	293	100	Madrid (RNE) - Sp.	—	262.7	0.05	Rottenmann - Aust.
—	359	20	Kharkov - USSR	1025	292.7	100	Dobl - Austria	—	262.7	0.25	4 low power AFN G.
845	355	0.2	Helsinki III - Finl.	—	292.7	100	Kronstorf - Austria	—	262.7	5	Bremerhaven (AFN)
—	355	150	Roma II - Italy	—	292.7	10	Lauterach II - Aust.	—	262.7	1	Florina - Greece
847	354	1	Jerusalem - Israel	—	292.7	—	Kitzbühel II - Aust.	—	262.7	2	Sohag - Egypt.
850	352.9	5	Huelva (RNE) - Sp.	—	292.7	0.5	Haifa - Israel	—	262.7	20	Kaliningrad - USSR
—	352.9	2	R. Huelva - Spain	—	292.7	5	R. S. Sebastian - Sp.	—	262.7	1/2	16 low power - Spain
854	351.3	150	Bucuresti I - Rum.	—	292.7	—	Aden - Aden	1151	261	100	Lisnagarvey - Gt.Br.
—	351	15	R. Madrid EAJ2	1034	290.2	0.25	Ansbach/Bad Kissingen (AFN) - G.	—	261	2/0.25	2 low power - Gt.Br.
—	351	20	Berlin (RIAS) - G.	—	290.1	20	Milano II - Italy	—	261	100	Stagshaw - Gt.Br.
—	351	0.05	Setif - Algeria	—	290.1	25	Venezia II - Italy	—	260.9	50	Cluj - Rumania
863	348	150	Paris I - France	—	290.1	10	Genova II - Italy	1160	259	150	R. Manises - Spain
—	347.5	10	Damascus - Syria	—	290.1	5	San Remo II - Italy	1169	256.6	10	Strasbourg I - Fr.
870	344.8	0.025	Adana (AFRS) - Turkey	—	290.1	5	Pescara II - Italy	—	256.6	3	Porto - Port.
—	344.8	0.025	Adana (AFRS) - Turkey	—	290.1	25	Napoli II - Italy	—	256.6	6	Koper - Yugoslavia
872	344	150	Frankfurt AFN - G.	—	290.1	100	Tallinn I - USSR	—	256.6	10	Ulm (SDR) G.
—	344	30	R. Petőfi II - Hung.	1043	287.6	5	Paredo - Portugal	—	256.6	1	Heilbronn (SDR) G.
—	344	30	R. Zaragoza - Sp.	—	287.6	240	Thessaloniki - Gr.	—	256.6	150	Thessaloniki Greece
—	344	150	Moscow III - USSR	—	287	1	Dresden (DDR) - G.	—	256.6	1	Kiev - USSR
881	340.5	20	Titograd - Yugosl.	—	287	—	Oujda - Morocco	1178	254.7	100	Jerusalem - Israel
—	340.5	100	Berlin (DDR) - G.	—	287	—	Tbilisi - USSR	—	254.7	2	Hörby - Sweden
—	341	8	Penmon - Gt. Br.	1052	285.3	0.05	2 low power - Aust.	—	254.7	5	Assouan - Egypt.
—	341	5	Towyn - Gt. Br.	—	285.3	2	Barnstaple - Gt. Br.	1186	253	0.06	Cuenca (RNE) - Sp.
—	341	2	Wrexham - Gt. Br.	—	285.3	120	Start Point - Gt. Br.	—	254.7	—	BBC - Malta
—	341	100	Washford - Gt. Br.	—	285.3	20	Bucuresti II - Rum.	1187	252.7	135	Megara - Greece
890	337.1	200	Alger I - Algeria	—	285.1	50	R. Tripoli - Libya	—	252.7	1	Petőfi I - Hungary
—	337.1	15	Linz I - Austria	—	285.1	5	Suhl (DDR) - Germ.	—	252.7	2/0.1	Casablanca - Mor.
—	337.1	20	Bergen I - Norway	1060	285	1	R. Shiraz - Iran	1190	252	1	24 low power - Spain
—	337.1	20	Kristiansand - No.	1061	283	25	Norte I - Portugal	—	252	1	R. Kerman - Iran
—	337.1	20	Trondheim - Norway	—	283	60	Kalundborg 2 - Den.	1196	251	150	Munich (VOA) - G.
—	337.1	20	Uzgodelag - USSR	—	283	20	Cagliari I - Italy	—	251	20	Bernburg (DDR) G.
895	335	100	R. Teheran - Iran	1070	280	100	Paris II - France	—	251	0.25	Marrakech - Mor.
899	333.7	150	Milano I - Italy	—	280	20	Marseille II - France	—	251	—	Dhahran (AFRS) - Saudi Arabia
908	330	140	Brookmanns Park - Gt. Br.	—	280	20	Bordeaux II - Fr.	—	251	0.3	R. Picasent - Spain
—	330	—	Stalingrad - USSR	—	280	1	Touggourt - Algeria	1205	249	100	Bordeaux I - F.
—	330	200	R. Baghdad - Iraq	—	280	20	Dunjeppetr. - USSR	—	249	10	Haifa - Israel
—	330	5	Miercurea - Ruman.	1079	278	2	Minia - Egypt.	—	249	150	R. Warszawa - Pol.
—	330	0.05	Biskra - Algeria	—	278	2	Luxor - Egypt	1209	248	0.4	R. Carlet - Spain
912	328.9	35	Reichenbach (DDR) - Germany	—	278	60	Katowice - Poland	1214	247	50	Brookmans Park - Gt. Br.
—	328.9	35	Reichenbach (DDR) - Germany	—	278	2	Plauen (DDR) - G.	—	247	20	Burghead - Gt. Br.
915	326	2	Paphos - Cyprus	—	278	1/0.2	5 low power - Spain	—	247	10	Lisnagarvey - Gt. Br.
917	327.2	5	Tetuan - Morocco	—	278	5	La Voz de Levante - Spain	—	247	50	Moorside Edge - Westerglen - Gt. Br.
—	327.2	1	Rabat - Morocco	—	278	5	La Voz de Vigo - Sp.	—	247	2/0.25	16 low power - Gt.Br.
—	327.2	135	Ljubljana I - Yugos.	—	278	5	R.Oviedo - Spain	—	247	5	Tallinn II - USSR
920	326	1	R. Sanandaj - Iran	—	278	5	Voz de Navarra - Sp.	—	247	20	Kursk - USSR
926	324	150	Brussels II - Belg.	—	278	1	Souk Ahras - Alg.	1223	245.3	20	La Voz de Madrid
—	324	100	Cairo II - Egypt	—	278	1	Droitwich - Gt. Br.	—	245.3	100	Stara Zagora - Bul.
—	324	10	Nis - Yugoslavia	1088	276	150	Postwick - Gt. Br.	1232	243.5	50	Falun - Sweden
—	324	0.05	Relizane - Algeria	—	276	7.5	Tirana - Albania	—	243.5	100	Tanger - Morocco
935	321	27	Rabat - Morocco	—	276	50	R. Kermanshah Iran	—	243.5	150	Bratislava - Czech.
—	321	100	Lvov - USSR	1090	275.3	1	R. Panades - Spain	1236	242.7	0.05	Moscow III - USSR
—	321	10	Berlin AFN - G.	1094	274	2	Bratislava - Czech.	—	242.7	25	Sparta - Greece
944	318	100	Toulouse I - France	1097	273.5	150	15 low power - Sp.	—	242	20	Vasaa - Finland
—	317.8	20	R. Intercont. - Sp.	—	273.5	1/2	Haifa - Israel	—	242	20	Lille II - France
953	314.6	20	Praha - Czechoslov.	1100	272	1	R. Mashhad - Iran	—	242	20	Lyon II - France
—	314.6	100/15	Turku I - Finland	1106	271.2	100	Stuttgart (AFN) G.	—	242	20	Nancy II - France
962	312	100	Tunis II - Tunisia	—	271.2	2/0.08	17 low power - Sp.	—	242	20	Nice III - France
—	312	5	Paris IV - France	—	271.2	100	Vilnius II - USSR	—	242	20	Pau - France
971	309	5	Göttingen (NDR) G.	1115	269.1	50	Bologna II - Italy	—	242	24	Brest I - France
—	309	100	Hamburg (NDR) G.	—	269.1	5	Messina II - Italy	—	242	20	Rennes II - France
—	309	100	Langenberg (WDR)	—	269.1	2	Trieste II - Italy	1248	240	1.2	Tiraspol - USSR
—	309	20	Smolensk - USSR	—	269.1	1	Aosta II - Italy	—	240	5	R. Juventud - C. Isl.
980	306.1	200	Alger II - Algeria	—	269.1	40	Barí II - Italy	1250	240	235	Dublin, Cork - Eire
—	306.1	200	Alger II - Algeria	—	269.1	10	Pisa II - Italy	—	240	2/0.2	Balatonszab., Hung.
—	306.1	200	Alger II - Algeria	—	269.1	10	Pisa II - Italy	1258	238	0.35	22 low power - Spain
—	306.1	200	Alger II - Algeria	—	269.1	10	Pisa II - Italy	—	238	0.35	R. Asturias - Spain

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
1259	238.3	150	Courier (VOA) - Gr.	1390	215.8	5	R. Badajoz - Spain	1484	202.2	0.1	Portalegre - Port.
1259	238.3	5	R. Valencia - Spain	—	215.8	100	R. Ahwaz - Iran	—	202.2	2	Barrow - Gt.Br.
—	238.3	20	Zielona Gora - Pol.	1394	215	7.5	Tripoli FBS - Libya	—	202.2	2	Ramsgate - Gt.Br.
—	238.3	50	Wroclaw - Poland	—	215.2	25	Graz I - Austria	—	202.2	1	Volos - Greece
1268	236.6	100	Novi Sad - Yugosl.	—	215.2	0.2/0.05	4 low power - Aust.	—	202.2	5	Freies Berlin - G.
—	236.6	5	R. Asturias - Spain	—	215.2	0.25	Birburg AFN - G.	—	202.2	0.2	14 low power SDR G.
1277	234.9	10	Alexandria - Egypt	—	215.2	0.25/0.15	19 low power - Sw.	—	202.2	0.25	Keflavik - Iceland
—	234.9	100	Strasbourg II - F.	—	215.2	1	Angra do Heroismo	—	202.2	0.02	2 low power - Icel.
1286	233	100	CS I - Czechoslov.	—	215.2	2	Azores	—	202.2	2/0.1	12 low power - It.
—	233	2	Lisboa - Port.	—	215.2	2	R. Almeria - Spain	—	202.2	1	Tripoli (FBS) - Lib.
1295	231.7	100	Norden Osterloog - G. (BBC European)	1403	213.8	2/0.2	3 low power - Spain	—	202.2	10	Benghazi - Libya
—	231.7	2	R. Coruña - Spain	—	213.8	10	Montpellier I - F.	—	202.2	1	R. Club de Madeira
1304	230	20	Constantine II - Alg.	—	213.8	20	Rouen - France	—	202.2	0.25	P. Lyantey (AFRS)
—	230	40	Oran II - Algeria	—	213.8	20	Nice II - France	—	—	—	Morocco
—	230	0.25/1	6 low power AFN	—	213.8	20	Brest II - France	—	202.2	0.25/2	4 low power - No.
—	230	5	VozdeGuipuzcoa Sp.	—	213.8	5	Comotini - Gr.	—	202.2	8	Lodz - Poland
—	230	2/1	14 low power - Spain	—	213.8	20	Tallinn - USSR	—	202.2	1	2 low power - Pol.
—	230	80	Szezecin - Poland	1412	212.4	3	Bad Mergentheim (SDR) - G.	—	202.2	1	2 low power (BR) G.
—	230	30	Gdansk - Poland	—	212.5	2	2 low power - Sp.	—	202.2	5	Limassol - Cyprus
1313	228.5	100	Stavanger - No.	—	212	5	Maribor - Yugosl.	—	202.2	5	Bruxelles IV (F.) - Belgium
—	228.5	0.5	Las Palmas - C. Isl.	—	212	2	Helsinki II - Finl.	—	202.2	5	Bruxelles III (Fl.) - Belgium
—	228.5	0.1/0.05	5 low power - Aust.	—	212	0.4	Turku II - Finland	—	202.2	2/0.5	11 low p. - Yugosl.
—	228.5	2	Cairo VI - Egypt	—	212	20	Pristina - Yugosl.	—	202.2	2	2 low power - Sp.
—	228.5	10	Dayr Az Zur - Syria	—	212	0.4	Club Tenerife C. Isl.	—	202.2	2	3 low power - Czech.
—	228.5	20	Athens (FBS) - Gr.	—	212	0.02	2 low power - Icel.	—	202.2	2	Pavlovo - Bulgaria
—	228.5	1.5	R. Miramar - Spain	1420	211	0.1	R. Almeria - Spain	—	202.2	2	R. Tripoli (FBS) - Libya
1315	228	—	Bucuresti - Rum.	1421	211.2	0.05	Sfax II - Tunisia	—	202	1	—
1320	227	1	R. Isfahan - Iran	—	211.2	40	Algier III - Algeria	1487	202.1	2	R. Bioga - Spain
1322	226.9	100	Leipzig (DDR) - G.	—	211.1	5	Tjernigov - USSR	—	202.1	3	R. Lugo - Spain
—	226.9	0.4	R. Ribatejo - Port.	—	211.1	100	R. Saarbrücken - G.	1490	201.1	0.8	R. Alcoy - Spain
—	226.9	100	Kharkov II - USSR	—	211.1	1	Tampere - Finland	1493	201	2/0.2	12 low power - Spain
—	226.9	1/2	23 low power - Spain	1425	221.1	7.5	Nicosia (F.B.S.) - Cyprus	—	201	1/0.05	3 low power - F.
1331	225.4	1/2	4 low power st. - It.	—	210	0.4	R. Luarca - Sp.	—	201	5	Gomel - USSR
—	225.4	80	Roma I - Italy	1428	210	5	Bancasa - Rumania	—	201	5	Rhodos - Greece
—	225.4	50	Genova I - Italy	1430	210	10	Copenhagen II - Denmark	—	201	0.05/0.035	8 low power - Aust.
—	224.4	25	Bologna I - Italy	—	210	5	R. Mallorca - Spain	1495	201	0.2	R. Cadiz - Spain
—	224.4	25	Pescara I - Italy	—	210	5	Skive - Denmark	1500	200	0.25	AFRS - Azores
—	224.4	20	Bari I - Italy	—	210	70	Luxembourg II	—	200	0.5/0.04	5 low power AFN - R.
—	224.4	12	Palermo I - Italy	1439	208	350	Nicosia (F.B.S.) - Cyprus	—	200	0.5/0.04	3 low power - Spain
—	224.4	2	R. Salamanca - Sp	—	208	7.5	R. Sagunto - Spain	1502	199.7	60	Krakow - Poland
1335	226.5	20	R. Baghdad - Iraq	1440	208.5	1	R. Isfahan - Iran	—	199.7	30	Rzeszow - Poland
1336	226.6	1	Haifa - Israel	—	208.3	1	Torino II - Italy	—	199.7	0.8	Münster (WDR) G.
1338	224	100	R. Iran - Iran	1448	207.2	20	Palermo II - Italy	—	199.7	2	4 low power - Sp.
1340	223.8	25	Nyiregyháza, Hung.	—	207.2	12	Ancona II - Italy	1504	199.6	0.2	R. Leon - Spain
—	223.8	25	Szombathely, Hung.	—	207.2	5	Catania II - Italy	1510	198.5	0.02	Eskilfjörður - Icel.
—	223.8	15	Pécs - Hungary	—	207.2	5	Firenze II - Italy	1511	198.4	2	R. Murcia - Spain
—	223.8	150	Crowborough, G.Br.	—	207.2	5	Sassari II - Italy	—	198.4	20	Brussels III - Belg.
1345	223.2	10	R. Kuwait - Kuwait	—	207.2	5	25 low power - It.	—	198.4	1	Patras - Greece
1349	222.4	10	Nantes I - France	—	207.2	1/0.25	5 low power - Sp.	—	198.4	5	Chania - Greece
—	222.4	20	Clermont - France	—	207.2	2/0.2	12 low power - Sw.	1518	197.6	0.06	R. Adra - Spain
—	222.4	20	Limoges II - France	—	207.2	2/0.15	Coimbra - Port.	1519	197.5	0.2	R. Elche - Spain
—	222.4	20	Grenoble I - France	—	207.2	1	R. Jaen - Spain	1520	197.4	1	CSI - Czechosl.
—	222.4	20	Toulouse II - France	1450	207	2	2 low power - Aust.	—	197.4	0.02	Reydarfjörður - Ice.
—	223.3	0.4	2 low power - Hung.	1457	206	0.05	Redruth - Gt.Br.	1529	196.2	0.075	Porjus - Sweden
—	222.4	20	Valmiera - USSR	—	206	2	Clevedon - Gt.Br.	—	196.2	100	Vatican Radio
—	222.4	20	Kuldiga - USSR	—	206	20	Bartley - Gt.Br.	1535	195	0.025	Diyarbakir (AFRS) - Turkey
—	222.4	20	Riga II - USSR	—	206	10	Brighton - Gt. Br.	1538	195	40	Ravensburg - G.
—	222.4	0.2	Korça - Albania	—	206	2	Folkestone - Gt.Br.	—	195	10	Reutlingen - G.
1355	221.3	0.2	Kavalla - Greece	—	206	1	Bexhill - Gt.Br.	—	195	50	Mainflingen - G. (Deutschl.-funk) -
1358	221	1/0.1	2 low power - Port.	—	206	20	Craiova - Rumania	1540	195	0.6	R. Vich - Sp.
—	221	20	Bremen - Germany	1460	205.4	0.4	Voz de Burriana - Spain	1545	194.2	0.02	Stödvarfjörður - Icel.
—	221	5	R. La Voz de Cataluna - Spain	—	205.9	20	Monte Carlo - Mon.	1546	194	0.25/1	13 synchr. - Gt. Br.
—	221	2/0.1	23 low power - Spain	1466	205	400	6 low power - Nor.	—	194	5	Vinnitsa - USSR
—	221	0.5	Haifa - Israel	—	204.6	1/0.25	Gorgan - Iran	—	194	5	Seelow (DDR) - G.
—	221	—	Tirana - Albania	1467	205	1	2 low power - Spain	—	194	0.1/0.05	2 low power - Aust.
—	220.9	200	Berlin (DDR) - G.	1475	203.4	2	Wien I - Austria	1554	193.1	60	Nice I - France
1367	219.5	2/0.1	8 low power - Italy	—	203	150	8 low power - Spain	—	203.1	5	Baranovtjii - USSR
—	219.5	25	Venezia III - Italy	1480	202.7	2/0.07	R. Avila - Spain	1562	192.1	1	Covilha - Portugal
—	219.5	12	Napoli III - Italy	—	202.7	20	St. Pölten - Aust.	—	192.1	1.25	Amalias - Greece
—	219.5	10	Milano III - Italy	—	202.2	0.2	Bone - Algeria	—	192.1	2/0.06	14 low power - Sw.
—	219.5	10	Genova III - Italy	1484	202.2	0.2	Copenhagen I - Den.	—	192.1	15	R. Veronica - Intern. W.
—	219.5	5	Roma III - Italy	—	202.2	0.25	Alborg - Denmark	1570	191.1	10	Flensburg (NDR) G.
—	219.5	5	Torino III - Italy	—	202.2	0.25	Tønder - Denmark	—	191.1	5	Michelet - Algeria
—	219.5	2	2 low power - Spain	—	202.2	0.5	Casablanca - Mor.	—	191.1	5	R. Tarragona - Sp.
—	219.5	5	Tórshavn, Faroe Isl.	—	202.2	1	Pietarsaari - Finl.	—	191.1	5	Bernburg (DDR) G.
—	219.5	0.5	4 low power - Switz.	—	202.2	1	Pori - Finland	—	191.1	0.25	Heraklion (AFRS) - Greece
—	219.8	30	Białystok - Poland	—	202.2	0.2	Tammsaari - Finl.	—	191	1	Tizi Ouzou - Alg.
—	219.8	30	Lublin - Poland	—	202.2	1/0.05	3 low power - F.	—	—	—	—
—	219.5	10	Porto - Portugal	—	202.2	2	Poitiers - France	—	—	—	—
1375	218	2	R. Zamora - Spain	—	202.2	0.5	R. Gibraltar	—	—	—	—
1376	218	150	Lille I - France	—	202.2	1	2 low power - Rum.	—	—	—	—
1385	217	150	Kaunas - USSR	—	202.2	2	—	—	—	—	—
—	217	50	Athens II - Greece	—	202.2	0.5	—	—	—	—	—
—	217	2/0.04	8 low power - Spain	—	202.2	1	—	—	—	—	—

kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations	kc/s	Metres	kW	Stations
1571	191	1	Santa Maria - Azores	1586	189	40	Hannover (NDR) G.	1594	188	1	Koszalin - Poland
1575	190.6	0.05	R. Monovar - Spain	—	189	40	Oldenburg (NDR) - Germany	—	188	2	Praha - Czechosl.
1578	190.1	2/0.1	17 low power - Italy	1594	188.2	15	Miskolc - Hung.	—	188	1	Lisboa - Portugal
—	190.7	10	Em. de Norte Beunidos - Portugal	—	188.2	0.4	Magyaróvár - Hung.	—	188	0.25	3 AFRS - Morocco
—	191.1	10	Fredriksstad - Nor.	—	188.2	15	Balatonszabadi - Hung.	—	188	0.15	Funchal - Madeira
—	191.1	1.3	Nordkapp - Norway	—	188.2	0.2	Bougie - Algeria	—	188	2/0.1	6 low power - It.
1585	189	0.25	Athens (AFRS) - Greece	—	188	2	Esbjerg - Denmark	—	188	0.2/0.075	7 low power - Sw.
1586	189.1	5	Kiel (NDR) - G.	—	188	0.05/1	2 low power - France	—	188	0.05	3 low power - Aust.
—	189.1	5	Kielbrück (NDR) - Germany	—	188	7.5	Hengelo - Holl.	1602	187	20/40	Nürnberg I (BR) G.
—	189	5	Bonn (WDR) - G.	—	188	7.5	Hoogezand - Holl.	—	187	20	Land/Isar (BR) - G.
—	189	3	Kleve (WDR) - G.	—	188	7.5	Hulsberg - Holl.	—	187	20	Kirchheim (BR) - G.
				—	188	1	Opole - Poland	—	187	1	3 low power (BR) G.
								1607	186	0.9	R. Tortosa - Spain

SHORT WAVE STATIONS OF THE WORLD

Moscow frequencies are omitted from the list as they are changed very often. All the Moscow frequencies reported are shown in the USSR-text. * Standard Frequency Station** Time Signal Station. Br. = Brazil, Cl. = Cultura, Col. = Colombia, Czecho. = Czechoslovakia, Ger. = Germany, Guat. = Guatemala, Hon. = Honduras, Isl. = Island, Venez. = Venezuela.

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
2330	128.7	0.3	YDI	Djember, Indonesia		3250	92.31	10	YDO	Bandjarmasin, Indonesia	
	128.7	1	YDM6	Sibolga, Indonesia			92.31	5		R. Clube de Mozambique	
2350	127.6	1	YDW	Pontianak, Indonesia			92.31	0.4	OAZ4G	R. La Oroya, Peru	
	127.6	1	YDJ3	Jogjakarta, Indonesia		3255	92.15	0.5	YVQL	La Voz del Tigre, Venez.	
	127.6			Shantung, China			92.15	0.3		Beira, Mozambique	
2360	127.1	1	YVQG	R. Carupano, Venezuela			92.15	0.5	ZYR62	R. Clube de Marilia, Brazil	
	127.1	0.25		R. Cultura do Nordeste, Br.			92.15	10	ELBC	Liberian Br. Corp., Liberia	
	127.1	0.25		R. dif. Parintins, Brazil		3259	92.05	0.3	YDV	Kupang, Indonesia	
2370	126.6	1	YDI3	Surabaya, Indonesia			3260	92.02		Kweichow, China	
2380	126.0	0.35	XESE	Mexico City, Mexico		3265	91.87	1	YVOC	Ecos del Torbes, Venezuela	
2390	125.3	0.1	YDN	Kotardjaja, Indonesia			91.87	2	ZFY	R. Demarara, Br. Guiana	
	125.3	0.3	YDA6	Tjirebon, Indonesia			91.87	4	ZYR92	R. Ribeirão Preto, Brazil	
	125.5	0.5	ZYV71	R. Por um Mundo Melhor, Br.			91.87	1	ZYK21	R. Tamandaré, Brazil	
2400	125.0	1	YDG2	Surakarta, Indonesia		3275	91.60	1	YVMC	R. Mara, Venezuela	
2405	124.7	0.3		Seoul (VUNC), Korea			91.60	1	ZYR31	Bauru R. Clube, Brazil	
2410	124.1	1		R. Sirena, Brazil		3277	91.55	1	YDD	Djakarta, Indonesia	
	124.1	0.25	4VU	R. Lumiere, Haiti			91.55			R. Kashmir, India	
2420	123.9	0.25	YDA2	Bandung, Indonesia			91.55	0.25		Port Vila, New Hebrides	
	123.9	8		R. Martinique, Martinique			91.55	1	DYB4	Dumaguete City, Philipp.	
	123.9	1	YDU7	Denpasar, Indonesia		3285	91.32	1	HI7T	La Voz Dominic, Dom. Rep.	
	123.9	0.5	ZYW32	R. Carajá (de) Anapolis, Br.			91.32	1	ZYR89	R. Aparecida, Brazil	
	123.9	0.5		R. Sao Carlos, Brazil			91.32	1	YVLE	R. Puerto Cabello, Venez.	
	123.9	0.25		R. dif. Carolina, Brazil		3286	91.26	0.3	YDG	Madiun, Indonesia	
2430	123.5	1	YDK2	Palembang, Indonesia			91.29	2	DUB4	Philipp. Br., Philipp.	
2450	122.5	0.5	ZYR231	Cultura de Aracatuba, Br.		3288	91.24	4		Tananarive, Madagascar	
2460	121.9	1	YDB	Djakarta, Indonesia			91.90	25		R. Nacional, Colombia	
	121.9	1	YDZ	Ternate, Indonesia		3295	91.00	1	YDY	Samarinda, Indonesia	
	121.9	0.5	ZYR99	R. Cacique, Brazil			91.00	15		Lusaka, Rhodesia	
2470	121.5	1	YVNI	R. Carora, Venezuela			91.00	0.7	YVOG	R. Trujillo, Venezuela	
2475	121.2			Chekjiang, China		3297	91.00	16	YIH32	Baghdad, Iraq	
2480	120.9	1	YDL2	Padaang, Indonesia		3300	90.85	5		Belize, Honduras (Br.)	
2490	120.5	1	YDH	Semarang, Indonesia			90.91	1	OBX4Y	R. Junin, Peru	
	120.5		YVOO	R. Valles del Tuy, Venez.		3301	90.88	7.5	CR7AB	R. Clube de Mozambique	
	120.5	0.3	YDO4	Makassar, Indonesia		3305	90.77	1	DZCA	NCDA, Philipp.	
*2500	120	0.5	MSF	Teddington, Gt. Britain			90.77	3	YVKX	La Voz de la Patria, Venez.	
*120	1	WWV	Lanham, USA				90.77	1	ZYH31	R. Educ. do Cariri, Br.	
*120	1	JJY	Tokyo, Japan				90.77	7.5		Benghazi, Libya	
*120		HBN	Nyehätel, Switzerland			3310	90.63	0.25	HI2N	R. HIN, Dom. Rep.	
*120	1	OMA	Praha, Czechoslovakia			3315	90.50	1	YVLI	R. Maracay, Venezuela	
*120	0.25	FFH	Bagneux, France				90.50	8		R. Martinique, Martinique	
2510	119.5	10	HLK50	Seoul, Korea		3316	90.47	20		Paradys, So. Africa	
2850	105.3			Pyeongyang, Korea			90.46	5		Freetown, Sierra Leone	
*3170	94.06	8	OMA	Praha, Czechoslovakia		3322	90.31	1	HI5U	R. Caribe, Dom. Rep.	
3187	94.01			Baku, USSR		3325	90.23	0.6	YVRA	R. Monagas, Venezuela	
3202	93.69	2		Bangkok, Thailand			90.23	7.5/10		Dacca, Pakistan	
3204	93.64	5		Ibadan, Nigeria			90.23	1	ZYJ21	R. Borborema, Brazil	
3205	93.60	10	YDA	Bandung, Indonesia			90.23	10		Forest Side, Mauritius	
3214	93.34	1	YDS	Menado, Indonesia			90.20	0.1	ZYR220	R. Dif. Hora Certa, Brazil	
3215	93.30	1/75		Taipei (BBC), Taiwan		3326	90.20	7.5/20		Kaduna, Nigeria	
3221	93.13	7.5	CR7BM	R. Clube de Mozambique		*3330	90.09	0.75	CHU	Dominion Observatory, Can.	
3223	93.09	1	YDX	Mataram, Indonesia			90.09	1	OAX1M	R. Progreso, Peru	
	93.09	2.5		AIR, Simla, India		3331	90.06	4		Dzaoudzi, Comores Isl.	
3225	93.05	0.5		ELWA, Liberia		3335	89.95	0.5	ZYR59	R. Pres. Prudente, Brazil	
3230	93.00	2	OAX2A	R. Trujillo, Peru			89.95	2	YVQD	Ecos del Orinoco, Venezuela	
3232	92.82	4		Tananarive, Madagascar		3336	89.90	4		Ziguinchor, Senegal	
3237	92.66	1	YDM7	Sibolga, Indonesia		3339	89.81	0.25		R. Zanzibar, Zanzibar	
3240	92.59	1	OBX4V	R. America, Peru		3340	89.81	0.5	ZYV30	R. Dif. Brasileira, Brazil	
3241	92.56	10	YDR3	Ambon, Indonesia		3345	89.69			R. Kashmir, India	
3245	92.45	1	YVKT	R. Libertador, Venezuela			89.68	2	DZB2	Call of Orient, Philipp.	
3250	92.31	10	HJGO	R. Sutatenza, Colombia			89.60	20		Lusaka, Rhodesia	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
3350	89.55		OAX5J	R. Independencia, Peru		3980	75.38	8/100		Munich (VOA), Germany	
	89.55	0.3		R. Sudamericana, Peru		3985	75.28	15/120		Peking, China	
3355	89.45	0.3	YDI20	Sumenep, Indonesia			75.28	0.3		Seoul (VUNC), Korea	
	89.45	0.25	HI2P	Emis. HI2P, Dom. Rep.			75.28	0.2	HCAH3	R. El Trebol, Ecuador	
	89.45	1	YVLC	R. Valencia, Venezuela		3990	75.19	20/50		R. Liberty, Germany	
	89.42	0.2	HCDR4	R. Miramar, Ecuador			75.19	0.25	HCJA5	Voz del R. Tarqui, Ecuador	
	89.42	4		R. Noumea, New Caledonia		3995	75.09			R. Roma, Italy	
3356	89.42	20		Paradys, So. Africa		4000	75.00			Bayinnor, China	
3360	89.29	1	HI4F	R. Santiago, Dom. Rep.			75.00	0.3	HCAO5	Voz de Tomebamba, Ecuad.	
	89.29	0.5	OAX3D	R. Huánuco, Peru		4009	74.83			Frunze, USSR	
3365	89.15	0.5	ZYS45	R. Dif. do Paraná, Brazil		4020	74.63	120/240		Peking, China	
	89.15	5		Grenada, Windward Isl.		4040	74.25	50		R. Kabul, Afghanistan	
	89.15	10/100	VUD	AIR, Delhi, India		4050	74.00			Kazan, USSR	
3366	89.12	20		Accra, Ghana		4068	73.75			Inner Mongolia, China	
3375	88.89	0.2	HCMS4	R. Alejo Lascano, Ecuador			73.75			Chaoowit, China	
	88.89	1	ZYK78	R. Olinda Pernamb., Brazil		4220	71.09			Sinkiang, China	
	88.89	0.6	YVMI	La Voz de la Fé, Venezuela		4235	70.84			Ashkhabad, USSR	
	88.89	10		AIR, Gauhati, India		4273	70.21			Khaborovsk, USSR	
	88.89	5	YDW	Pontianak, Indonesia		4310	69.61			Chimkent, USSR	
3376	88.89	20		Paradys, So. Africa		4486	66.88			Ufa, USSR	
3380	88.76	1.5		St. Denis, Reunion		4500	66.67			Sinkiang, China	
	88.76	1	OAX10	R. Chiclayo, Peru			66.67	15/120		Peking, China	
3385	88.63	0.2	HCJP4	Ondas Manabitas, Ecuador		4525	66.25			Silingol, China	
	88.63	1	YVQL	Emis. Unidas, Venezuela		4540	66.08			Tbilisi, USSR	
	88.63	1	HI2D	R. Hit Musical, Dom. Rep.		4559	65.80			Guryev, USSR	
3390	88.50	15/120		Peking, China		4600	65.22	0.4	HCAU2	R. Atalaya, Ecuador	
	88.50	0.1	OCX4R	R. Cult. Oroya, Peru		4620	64.93	0.5	HSQ	Bangkok, Thailand	
3395	88.37	1	YDF2	Medan, Indonesia		4625	64.86			Alma Ata, USSR	
	88.37	0.4		Paramaribo, Surinam		4635	64.72			Stalinabad, USSR	
	88.37	0.5		Sorong, New Guinea			64.72	1	HCGB1	Quito, Ecuador	
	88.37	1	YVOJ	R. Universidad, Venezuela			64.72			Yuzhno-Sakhalinsk, USSR	
3396	88.36	10		Salisbury, Rhodesia		4650	64.52	0.5	HCAK2	Dif. del Ecuador, Ecuador	
	88.36	5		Kaduna, Nigeria		4690	64.02	0.25	HCMX4	R. Cenit, Ecuador	
3406	88.08	5	CR7CA	R. Clube de Mozambique		4710	63.69	50		R. Kabul, Afghanistan	
3505	85.59	0.22	HCSG5	Voz del Valle, Ecuador		4725	63.48	0.2	HCRM3	R. Cul. Machala, Ecuador	
3510	85.47	0.2	HCNL2	Voz del Campesino, Ecuad.		4730	63.42	0.3	HCET2	R. El Telegrafo, Ecuador	
3515	85.35	0.2	HCKD5	R. Centro Gualaco, Ecuad.		4735	63.35	0.2	HCLM1	Voz de Imbabura, Ecuador	
3520	85.23	0.2	HCCY4	R. Escuelas Radiales, Ecuad.			63.35	5	ZYF24	R. Dif. do Maranhao, Brazil	
3545	84.63	0.3	HCOT1	R. Saracay, Ecuador		4750	63.16	3	YDO	Makassar, Indonesia	
3603	80.47	0.75	CR6RK	R. Clube do Sul Angola		4755	63.09	1	ZYV3	R. Brazil, Brazil	
3620	82.87	0.1	HCEF2	R. El Sagrario, Ecuador			63.09	0.15	CR4AB	R. Cl. Mindelo, Cape Verde	
3630	82.64		HCOS4	Voz del Carrizal, Ecuador			63.09	0.25	HCLJ6	Voz de Bolivar, Ecuador	
3660	81.97	1	HCCB2	Guayaquil, Ecuador			63.09	2.5	HJGJ	Reina de Colombia, Col.	
3680	81.48	0.2	HCCB1	Otavalo, Ecuador			63.09	0.5	HRD4	La Voz de las Colinas, Honduras Rep.	
3695	81.12		HCIE1	R. Cotacachi, Ecuador		4760	63.03	0.5	YVKV	Emis. Vargas, Venezuela	
3704	80.99	0.5	CR6RD	Nova Lisboa, Angola			63.03	2.5		AIR, Simla, India	
3725	80.56	0.2	HCHW2	R. Rey, Ecuador			63.03	10/100	VUD	AIR, Delhi, India	
3800	78.95	0.1		Tokyo (FEN), Japan		4762	63.00	0.25	OCX4W	R. Inca, Peru	
3835	78.20	0.2	HCWN1	Voz del Triunfo, Ecuador		4765	62.95	3	HJEF	R. Dif. Occidente, Col.	
3840	78.13	20		R. Iran, Iran			62.96	1	ZYN37	Feira de Santana, Brazil	
3900	76.92			Inner Mongolia, China		4770	62.89	0.5	OAX2G	R. Cajamarca, Peru	
3910	76.73	4	HLK51	Seul, Korea			62.89	1	CR6RG	R. Diamang, Angola	
	76.73	1	HCGB4	Esmeraldas, Ecuador			62.89	0.3	YVMW	Ondas del Caribe, Venezuela	
3915	76.64	15/120		Peking, China			62.89			Sinkiang, China	
	76.64	5	YDZ2	Ternate, Indonesia			62.89	10		ELWA, Liberia	
	76.64	7.5	YDB4	Djakarta, Indonesia			62.89	1	HSQ	Bangkok, Thailand	
3925	76.43	50	JOZ	Tokyo, Japan		4775	62.84	5	ZYH29	R. Dragão do Mar, Brazil	
3935	76.24	5	YDH2	Semarang, Indonesia			62.84	5	ZYR81	R. Progreso, Brazil	
3940	76.15	2.5	ZBW	R. Hong Kong			62.83	10		AIR, Gauhati, India	
3945	76.05	0.5	DXB3	Cotabato, Philipp.			62.83	0.25	CR7XB	Quelimane, Mozambique	
	76.05	10	YDU2	Denpasar, Indonesia		4777	62.80	25		R. Gabon, Gabon	
	76.05	10/50		Karachi, Pakistan		4780	62.76	1	YVLA	Voz de Carabobo, Venez.	
	76.05	10	JOZ4	Tokyo, Japan			62.76	7.5	ZHL	R. Singapore, Singapore	
	76.05	0.25	HCDY4	R. Iris, Ecuador			62.76	2	HC1MQ	R. Atahualpa, Ecuador	
3950	75.95	0.2	HCPZ1	R. Rumichaca, Ecuador			62.76	1	HI2S	Onda Musical, Dom. Rep.	
3952	75.90	15/100		BBC, Gt. Britain			62.76	4		R. Djibouti, Fr. Somaliland	
	75.90	5	CR7RA	R. Pax, Mozambique		4782	62.74	2	CR6RY	Novo Redondo, Angola	
3955	75.80	10		Zomba, Rhodesia		4785	62.70	0.5	ZYM8	R. Ribamar, Brazil	
3958	75.78	5/0.5		Stanley, Falkland Isl.			62.70	10		Dar-Es-Salaam, Tanganyika	
3960	75.76	5	CR4AA	R. Cl. Cabo Verde			62.70	4		R. Niger, Niger	
	75.76	0.5	OAX70	R. Madre de Dios, Peru			62.70	1	ZYV20	R. Dif. do Guaporé, Brazil	
	75.76	1	CR4AC	R. Barlavento, Cape Verde I.		4790	62.69	0.2	HCA54	Voz de los Caras, Ecuador	
	75.76	10/100		R. Free Europe, Germany			62.63	5	YVQN	Ondas Portañas, Venezuela	
	75.76	10	YDL	Padang, Indonesia		4795	62.57	2		R. Trabajara, Brazil	
	75.76	1	YDT	Soa Siu, Indonesia			62.57	0.25		R. Zanzibar, Zanzibar	
	75.76	0.2	HCCJ2	Ecos del Agro, Ecuador			62.54	50	XZK2	Rangoon, Burma	
3965	75.67	0.35	HCHJ1	R. Turismo, Ecuador		4797	62.54	5		R. Somali, Somali	
	75.67	0.5/50		Taichung, Taiwan		4800	62.50	10	YVME	Ondas del Lago, Venezuela	
	75.65	10		Peshawar, Pakistan			62.50	0.2	HCSV5	R. Amazonas, Ecuador	
3970	75.57	5		Osterloog (NDR), Germany		4804	62.45	5		Kisumu, Kenya	
	75.57	0.2	HCHV4	La Voz del Pueblo, Ecuador		4805	62.43	5	ZYS8	R. Dif. do Amazonas, Brazil	
3975	75.47	15/100		BBC, London, Gt. Britain			62.42	20	YDB2	Djakarta, Indonesia	
	75.48	10	YDI2	Surabaya, Indonesia		4807	62.41	1		Lahore, Pakistan	
	75.47	0.2	HCSN6	R. Sira, Ecuador			62.41	1	CR5SC	Sao Tomé, Sao Tomé	
3980	75.38	0.5	VRH4	Suva, Fiji Islands			62.40	0.5	OAX3E	R. Huaráz, Peru	
	75.38	0.1	HCCF4	Voz de Chone, Ecuador		4808	62.37	1	YVMG	R. Popular, Venezuela	
	75.38	5		Enugu, Nigeria							

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
4810	62.37	0.2	HCL53	R. Coro S. Cecilia, Ecuad.		4810	61.10	18		R. Nationale, Guinea (Rep.)	
	62.37	20		Paradys, So. Africa			61.10	0.3	YDM	Bukittinggi, Indonesia	
4815	62.31	1	ZYP33	Petropolis R. Dif., Brazil			61.10	1	YVMK	R. Cabimas, Venezuela	
	62.31	0.3	HCFA4	Voz de Manabi, Ecuador			61.10	0.3	OAX2K	R. Libertad, Peru	
	62.31	1	ZYH21	R. Icarema de Fortaleza, Br.			61.10	2	HCIM1	R. Gran Colombia, Ecuador	
	62.31	4/25		Ouagadougou, Upper Volta			61.10	0.1	HCAR1	R. Montufar, Ecuador	
	62.31		OAX5U	R. Huancavelica, Peru		4911	61.08	10		Lusaka, Rhodesia	
4820	62.24	1	YVRC	Voz de Apure, Venez.		4915	61.04	2		Accra, Ghana	
	62.24	1	CR6RD	Nova Lisboa, Angola			61.04	0.2	HCLR5	Voz de Alaui, Ecuador	
	62.24	1.5		St. Denis, Reunion			61.04	1	ZYR60	Cultura de Araraquara, Br.	
	62.24	0.2	XEJG	Guadalajara, Mexico			61.04	1.5	ZYE2	R. dif. de Macapa, Brazil	
	62.24	5		R. Singapore, Singapore			61.04	1		R. Rio S. Francisco, Brazil	
	62.24	10		AIR, Bhopal, India		4920	60.98	10	VL4M	Brisbane, Australia	
4825	61.18	0.5	ZYV56	R. Cl. de Varginha, Brazil			60.98	7.5	YVKR	R. Caracas, Venezuela	
	62.18	1	HJHC	R. Nariño, Colombia			60.98	0.2	HCMP2	Voz de la Peninsula, Ecuad.	
	62.18			Makhachkala, USSR			60.98	10/100	VUM	AIR, Madras, India	
	62.18	0.5	ZYE7	Educadora de Parnaiba, Br.		4924	60.92	7.5	CR7BU	R. Clube de Mozambique	
4828	62.12	15		Lusaka, Rhodesia		4925	60.90	1	ZYV36	R. Industrial de Juiz, Bras.	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela		4930	60.85	1	HCBX1	R. Casa de la Cultura, Ecuad.	
	62.10	1	HSK4	R. Thailand, Thailand			60.85	10/50		Karachi, Pakistan	
4834	62.06	10		R. Bukavu, Congo Rep.			60.85			Erevan, USSR	
4835	62.05	0.35	OAX7T	R. Sicuani, Peru			60.85			R. Junin, Venezuela	
	62.05	1	HJKE	R. Continental, Colombia			60.85	0.6	HI5V	La Voz del Biran, Dom. Rep.	
	62.05	5		R. Sarawak, Sarawak			60.85	1	YDX	Tdj. Pinang, Indonesia	
	62.05	0.5	ZYV37	R. Soc. Triangulo, Brazil		4934	60.80	10		Nairobi, Kenya	
	62.05		HCSG4	Voz del Valle, Ecuador			60.80	0.25	OAX5Q	Abancay, Peru	
	62.05	4		Bamako, Mali		4935	60.80	1	ZYI21	R. Poti, Brazil	
4840	61.98	0.3	YDU	Singaradja, Indonesia			60.80	1	HJLF	Ondas de Ibaque, Colombia	
	61.98	10/100	VUB	AIR, Bombay, India		4940	60.73	2	YVMO	R. Occidental, Venezuela	
	61.98	1	YVOI	R. Valera, Venezuela			60.73	0.25/10	VUC	AIR, Calcutta, India	
	61.98	10	CR7BV	R. Cl. de Mozambique			60.73	10/100	VUD	AIR, Delhi, India	
	61.98	0.25	VL9BR	R. Rabaul, N. Guinea (Au.)			60.73	25		R. Abidjan, Ivory Coast	
4843	61.95	25		R. Congo, Congo			60.73			Kiev, USSR	
4845	61.92	0.5	ZYU8	R. Dif. de Teresina, Brazil			60.73	10	HCXZ1	R. dif. Nacional, Ecuador	
	61.92	1	HJGF	R. Bucaramanga, Colombia			60.73	1	HRVS	Voz de Suyapa, H.R.	
	61.92	1	OAX1X	R. Chira, Peru		4945	60.67	1	HJCW	Emis. Sur America, Colomb.	
4850	61.86	1	YVMS	R. Universo, Venezuela			60.67	10	YDA3	Bandung, Indonesia	
	61.86	0.25	HCCV3	Ond. del Zamora, Ecuador			60.67	1	ZYO25	R. Capixaba, Brazil	
	61.86	2		AIR, Ranchi, India			60.67	0.25	ZYF22	R. dif. Mearim, Brazil	
4852	61.83	0.4		Paramaribo, Surinam			60.67	1		R. Educ. de Braganca, Br.	
4855	61.79	4/30		R. Mauritania, Mauritania			60.67	20		Paradys, So. Africa	
	61.79	0.25	CP39	R. Cobija, Bolivia			60.67	0.25	DZB6	Nat. Teachers Coll., Philipp.	
	61.79	1	HJFN	R. Neiva, Colombia		4950	60.60	1	YVMM	R. Coro, Venezuela	
	61.79	10	YDK	Palembang, Indonesia			60.60	6		Nairobi, Kenya	
	61.79	6		Nairobi, Kenya			60.60	25		Dakar, Senegal	
	61.79	10		Enugu (ENBS), Nigeria			60.60	5/7.5		R. Sarawak, Sarawak	
	61.79	1	ZYR61	R. Dif. de Taubaté, Brazil			60.60			R. Kashmir, India	
	61.79	0.25	CR7XD	Nampula, Mozambique		4955	60.54	2		R. Cultura de Campos, Br.	
	61.79	0.5	OAX8I	R. Iquitos, Peru			60.54			Alma Ata, USSR	
4859	61.74	7.5		R. Clube de Mozambique			60.54	50	HJCQ	R. Nacional, Colombia	
4860	61.73	1	YVPA	R. Yaracuy, Venezuela			60.54		OAX5S	Huanta, Peru	
	61.73	0.25	HI5C	Voz del Progreso, Dom. R.		4958	60.51			Baku, USSR	
4865	61.66	1	CSA97	Ponta Delgada, Azores		4960	60.48	10/100	VUD	AIR, Delhi, India	
	61.66		HCCD1	Luz de America, Ecuador			60.48	1	YVQA	R. Sucre, Venezuela	
	61.66	1	HJFA	Voz de Pereira, Colombia			60.48	1	HCSC5	R. Ruta, Ecuador	
	61.66	2	PRC5	R. Clube do Para, Brazil		4965	60.42			Blagoveshchensk, USSR	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola			60.42	10		Gwelo, Rhodesia	
4870	61.60	10		Colombo, Ceylon			60.42	10		Colombo, Ceylon	
	61.60	0.5	OCX4T	Huancayo, Peru			60.42	2.5	HJCG	R. Santa Fé, Colombia	
	61.60	2	YVKP	R. Tropical, Venezuela		4967	60.25	10/50		R. Kuwait, Kuwait	
4872	61.56	10		R. Leopoldville, Congo Rep.		4970	60.36	10	YVLK	R. Rumbos, Venezuela	
4873	61.56			Uralsk, USSR			60.36	0.3	HCGH1	R. Tarqui, Ecuador	
4875	61.54	5	ZYZ30	R. Jornal do Brazil, Brazil			60.36	0.25		R. Mogadiscio, Somali	
	61.54			Cotonou, Dahomey			60.36	5	VQA52	Jessetlon, No. Borneo	
	61.54	10	YDG3	Surakarta, Indonesia		4972	60.33	4		R. Yaounde, Cameroon (Fr.)	
4880	61.48	7.5	YVKF	Ond. Populares, Venezuela		4975	60.30	2.5	ZYV9	R. Timbira, Brazil	
	61.48	1	OCX4E	R. 1160, Peru			60.30	1	ZYP27	R. Copacabana, Brazil	
	61.48	10		AIR, Lucknow, India			60.30			Alma Ata, USSR	
4885	61.41	10		Nairobi, Kenya		4980	60.25	0.25	HI3K	Ondas del Yaque, Dom. Rep.	
	61.45	5	ZYV50	R. Cultura de Pocos, Brazil			60.25	0.3	HCJC5	Ondas Azuayas, Ecuador	
	61.41	1	ZYD9	R. dif. Rio Branco, Brazil			60.25			Fukien, China	
4890	61.35	5	YVKB	R. Dif. Venezuela, Venez.		4985	60.18	1	YDN2	Kotardja, Indonesia	
4893	61.32	4		Dakar, Senegal			60.18	1.5	ZY25	A Voz de Oeste, Brazil	
4895	61.29	20		Paradys, So. Africa			60.18		HJCV	R. Independencia, Colombia	
	61.29	0.25		Porto Amelia, Mozambique		4990	60.12	0.1	ZCQ3	Victoria, Seychelles	
	61.29	8		R. Martinique, Martinique			60.12	10		AIR, Hyderabad, India	
	61.29	2.5	ZYB22	R. Baré, Brazil			60.12	15	YVMQ	R. Barquisimeto, Venezuela	
	61.29	1	ZYN22	R. Cultura da Bahia, Brazil			60.12			Hunan, China	
	61.29	10		Rawalpindi, Pakistan			60.12	5/20		Lagos, Nigeria	
4900	61.22	1	YVQE	Colombo, Ceylon		4995	60.06	3	CR6RZ	R. Angola, Angola	
	61.22	1	YDS	R. Bolivar, Venezuela			60.06	5	ZYX2	R. Brazil Central, Brazil	
4904	61.18	25		Garontalo, Indonesia			60.06	0.5	HRQW	R. Juventude, Hond. Rep.	
4905	61.16	5	ZYZ22	R. Tchad, Tchad		4996	60.05			Magadan, USSR	
	61.16	1	HJAG	R. Relogio Federal, Brazil		4997	60.04			Ivanovo, USSR	
	61.16	0.5	HRQN3	Emis. Atlantico, Colombia		*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
	61.16			Voz del Atlantico, Honduras		*	60.00	2	WWVH	Puunene, Hawaii	
4910	61.10	10/50		Karachi, Pakistan		*	60.00	8	WWV	Lanham, USA	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
*5000	60.00	1	JJY	Tokyo, Japan		5850	51.27	0.5	HSQ	Bangkok, Thailand	
*	60.00	2	LOL	Buenos Aires, Argentina		5860	51.20			R. Nacional, Bolivia	
*	60.00		HBN	Neuchâtel, Switzerland		5873	51.05	5	HRN	Voz de Honduras, H. R.	
*	60.00	4	ZUO	Johannesburg, So. Africa		5890	50.93	0.8	HCDF1	Voz del Norte, Ecuador	
5005	59.94	0.5	HCBJ2	R. El Mundo, Ecuador		5900	50.84	1	ZNB	Mafeking, Bechuanaaland	
5010	59.88	7.5		FBS, Singapore		5915	50.72	15/120		Peking, China	
	59.88		HCRP1	R. Catolica, Ecuador		5930	50.57	100		Praha, Czechoslovakia	
	59.88	1	OAX50	R. Pisco, Peru			50.57	1	OAX6E	R. Continental, Peru	
	59.88	5		Grenada, Windward Isl.		5935	50.54	120/240		Peking, China	
	59.88	4		R. Garoua, Cameroon (Fr.)			50.54			R. Tibet, China	
	59.88			Kwangsi, China		5940	50.51			Khabarovsk, USSR	
5012	59.85	10	HJCA	R. Nacional, Colombia					5950-6200 kc/s - 49 meter Band		
5015	59.82	1		Vladivostok, USSR		5950	50.42	120/240		Peking, China	
	59.82	1	CR6RM	Moçamedes, Angola			40.42	2	HRN	La Voz de Honduras, Hon.	
5020	59.76	10		Colombo, Ceylon			50.42		HCCV5	Quatro Rios, Ecuador	
	59.76	0.15	OAX5R	Ayacucho, Peru			50.42	0.35	OAX4P	R. Huancayo, Peru	
	59.76	1	HJFW	Transm. Caldas, Colombia			50.42	0.5	OAX3E	R. Huaraz, Peru	
	59.76	4		R. Niger, Niger		5952	50.40	5	TGNA	R. Cultural, Guatemala	
	59.76	0.12	4VGS	R. Independence, Haiti		5954	50.39	1	TIQ	R. Casino, Costa Rica	
	59.76			Alma Ata, USSR		5955	50.38	10/100		Allois, France	
5024	59.71	1	CR6RH	Sa da Bandeira, Angola			50.38	50	WDSI	Brentwood, USA	
5025	59.70	1	ZYX24	R. Dif. de Aquidauana, Br.			50.38	0.5		Larissa, Greece	
	59.70		OAX7Q	R. Quillabamba, Peru			50.38	10/100	VUD	AIR, Delhi, India	
5026	59.70	7.5		Kampala, Uganda			50.38	10	ZYR226	R. Gazeta, Brazil	
5030	59.64	1	HI3C	Voz del Papagayo, Dom. R.		5956	50.37	100		R. Elisabethville, Congo Rep.	
	59.64	7.5	YVKM	R. Continente, Venezuela			50.34	100	HCTR1	R. Equinoccial, Ecuador	
	59.64	15/120		Peking, China			50.34	100		R. Budapest, Hungary	
	59.64	7.5	YDP	Medan, Indonesia			50.34	50		Ulan Bator, Mongolia	
	59.64	0.5	HCP55	Ondas Cañaris, Ecuador			50.34	1	OAX7L	La Voz del Altiplano, Peru	
5035	59.58	0.5		R. Esp. Santo, Brazil			50.34	5	VQO2	Honiara, Solomon Isl.	
	59.58	4		Bangui, C. African Rep.			50.34	50/60/100		R. Roma, Italy	
	59.57	1	ZYW22	R. Anhanguera, Brazil			50.34	10/100		R. Free Europe, Germany	
	59.57		HCCU5	La Voz de Azogues, Ecuad.			50.34	1	BEP23	Taipei, Taiwan	
5039	59.53	20		Omdurman, Sudan			50.34	0.5	HOL21	R. Hogar, Panama	
5040	59.52	0.2	HCER1	Escuelas Radiales, Ecuador			50.34	1	HJCF	Voz de Bogota, Colombia	
	59.52	0.225	4VPM	Port-de-Paix, Haiti			50.34	8/100		Munich (VOA), Germany	
	59.52			Tbilisi, USSR			50.34			R. Kashmir, India	
	59.52	1	YVMA	Ecos del Zulia, Venezuela		5965	50.28	0.2	HCGR5	R. Mundial, Ecuador	
5042	59.48	1	CR6RF	R. Cl. de Benguela, Angola			50.28	50/200	KCBR	Delano, USA	
5045	59.46	0.3		Beira, Mozambique			50.28	0.5	YNWV	R. Sport, Nicaragua	
	59.46	0.25	HCED5	R. Roxi, Ecuador			50.28	7.5	ZYU60	R. Guaiba, Brazil	
	59.46	1		R. Quitandinha, Brazil		5970	50.25	50	CKNA	R. Canada, Canada	
5047	59.43	7.5	YDJ	Jogjakarta, Indonesia			50.25	7.5		Dacca, Pakistan	
	59.43	4		Lomé, Togo			50.25	0.3	CBNX	St. John's, Canada	
5050	59.41	20		Dar-es-Salaam, Tanganyika			50.25	7.5	HI4T	La Voz Dominicana, Dom. R.	
	59.41	5	YVKD	R. Cultura, Venezuela			50.25	10/100		R. Free Europe, Germany	
	59.41			Petrozavodsk, USSR			50.25	1	YDO2	Bandjarmasin, Indonesia	
	59.41	1	HJDW	Voz de Medellin, Colombia			50.25	1.5		R. Brazzaville, Congo	
	59.41	0.35	ZK1ZA	Rarotonga, Cook Isl.			50.25	0.5	TGLA	R. Victoria, Guatemala	
	59.41	1	OAX1J	R. Tumbes, Peru			50.25	0.2	HCJT1	R. Tulcan, Ecuador	
5055	59.36	2	ZYO23	R. Victoria, Brazil			50.25	10	OBX4Q	R. El Sol, Peru	
	59.36	1	CR6RW	Cabinda, Angola			50.25	1	DZCA	NCDA, Philipp.	
	59.36	0.25		Aioun el Atrous, Mauritania		5972	50.22	1	HRWW	La Voz de C. America, Hon.	
			5060-5950 kc/s			5975	50.21	15/100		BBC, London, Gt. Britain	
5060	59.29	0.4	4VRM	Voix des Gonaives, Haiti			50.21	10	ZYT44	R. Guarujá, Brazil	
	59.29	1	CR6RD	Nova Lisboa, Angola			50.21	3	ZPA6	R. Guairá, Paraguay	
	59.29	0.25	HCMV5	R. Popular, Ecuador			50.21	8/100		Munich (VOA), Germany	
5065	59.23			Petrozavodsk, USSR			50.21	3		Jeddah, Saudi Arabia	
5067	59.21	25		Ulan Bator, Mongolia			50.21	10/100	VUD	AIR, Delhi, India	
5070	59.18	0.25	HCR11	Centro R. Imbabura, Ecuad.			50.21	10	HLK22	Seoul, Korea	
5075	59.13	25	HJGC	R. Sutatenza, Colombia			50.21	0.3	HCMH6	R. Cotopaxi, Ecuador	
	59.11	120/240		Peking, China		5979	50.18			Yakutsk, USSR	
5100	58.82	0.25		Nampula, Mozambique		5980	50.17	5	OBX4M	R. Panamericana, Peru	
5105	58.76	0.2	HCOB5	R. Ondas Azules, Ecuador			50.17	0.25	VRH5	Suva, Fiji	
5115	58.65			Petrozavodsk, USSR			50.17	7.5	4VB	R. Commerce, Haiti	
	58.65			Vladivostok, USSR			50.17	1	TGAR	R. Quetzal, Guatemala	
5125	58.54	15/120		Peking, China			50.17	7.5		Dacca, Pakistan	
	58.54	0.5	HCQR1	R. Quito, Ecuador			50.17	10/50		Karachi, Pakistan	
5137	58.00	1	CR6RV	R. Clube Mexico, Angola			50.17	1/75		Taipei (BCC), Taiwan	
5225	57.42			Novosibirsk, USSR			50.17	10/50/100		R. Nederland, Holland	
5230	57.36			Nicolayevsk, USSR			50.17	100		Bucharest, Rumania	
5232	57.33	25		Ulan Bator, Mongolia			50.16	2	ZFY	R. Demerara, Br. Guiana	
5250	57.20		HCP55	R. Ond. Cañaris, Ecuador		5985	50.13	20	LRS2	R. Splendid, Argentina	
5260	57.03			Alma Ata, USSR			50.13	50/200	KNBH	Dixon, USA	
5270	56.93			Thai TV Co., Thailand			50.13	25		Sanaab, Yemen	
5290	56.71			Krasnoyarsk, USSR			50.13		HJGW	R. Independencia, Colombia	
5302	56.60			Ivanovo, USSR			50.13	1.5	BEC37	Tsoying, Taiwan	
5440	55.15		OAX5X	R. Huancavelica, Peru			50.13	120/240		Peking, China	
5675	52.80	20		Damascus, Syria			50.13	50		R. Tunis, Tunisia	
5740	52.26			Erevan, USSR		5990	50.08	15/100		BBC, London, Gt. Britain	
	52.26	0.3	4VCB	La Voix du Sud, Haiti			50.08	10/100		R. Free Europe, Germany	
5760	52.10	0.5	HJL	La Voz de Colombia			50.08	0.5	HCGY6	R. Luz, Ecuador	
5762	52.07			Alma Ata, USSR			50.08	1	YDS2	Menado, Indonesia	
5800	51.72	0.5	OAX7Z	R. Juliaca, Peru			50.08	1		Pakanbaru, Indonesia	
5810	51.63	0.25	YNRC	R. Cultural, Nicaragua			50.08	5	TGJA	R. Nuevo Mundo, Guatem.	
5835	51.40	4		Tananarive, Madagascar			50.08		OAX1W	R. Nac. Tumbes, Peru	
5838	51.39	0.5	OAX7K	R. Puno, Peru			50.08	120/240		Peking, China	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
5990	50.08	100		Bucharest, Rumanai		6035	49.71	4		Noumea, New Caledonia	
	50.08	10		AIR, Bhopal, India			49.71	15/100		BBC, London, Gt. Britain	
5993	50.05	10		R. Coquilhatville, Congo R.			49.71	10	YZZ26	R. Globo, Brazil	
5994	50.05	1.5		R. Martinique, Martinique			49.71	1	CXA30	R. Nacional, Uruguay	
5995	50.04	1	YNDG	R. Colonial, Nicaragua			49.71	120/240		Peking, China	
	50.04	35		Thessaloniki (VOA), Greece			49.71	50	YZK3	Rangoon, Burma	
	50.04	1	CP41	R. Loyola, Bolivia			49.71	10/50		Karachi, Pakistan	
	50.04	50	WDSI	Wayne, USA			49.71	1.5	HRTL2	R. Tegucigalpa, Hond. R.	
	50.04	1	HRP1	El Eco de Honduras, Hon. R.			49.69	2	TIFC	Faro del Caribe, Costa Rica	
	50.04	1	BEC36	Taipei, Taiwan		6037	49.69	0.5	OAX6B	R. Landa, Peru	
	50.03	1	HJFQ	Voz del Pueblo, Colombia		6040	49.67	15/100		BBC, London, Gt. Britain	
	50.03	3	OAX4V	R. America, Peru			49.67	35		Thessaloniki (VOA), Greece	
6000	50.00	1/50	OEI20	Aldrans, Austria			49.67	10/100	VUD	AIR, Delhi, India	
	50.00	20/100	ORU	Wayre, Belgium			49.67	1/75		Taipei (BCC), Taiwan	
	50.00	50		R. Nacional, Spain			49.67	0.5	YNLUA	Radio City, Nicaragua	
	50.00	1	DZH4	Voice of the Philippines			49.67	0.5	TGCO	Voz del Tropic, Guatemala	
	50.00	5	CXA2	R. Sur, Uruguay			49.67	10	HJLB	La Voz del Tolima, Colomb.	
	50.00	3	TGTA	R. Sonora, Guatemala			49.67	50/200	KCBR	Delano, USA	
	50.00	5	PRK5	R. Inconfidencia, Brazil			49.67	5	CE604	R. Libertad, Chile	
	50.00	4		R. Djibouti, Fr. Somaliland			49.67	8/100		Munich (VOA), Germany	
	50.00	120/240		Peking, China		6042	49.65	0.25	OAX6A	R. Arequipa, Peru	
	50.00	7.5		R. Swan, Swan Isl.		6045	49.63	0.1		R. Univ., SLP, Mexico	
	50.00	1	OAX7E	R. Nac. Puno, Peru			49.63	100	YDF	Djakarta, Indonesia	
	50.00		YVNL	R. Miranda, Venezuela			49.63	1	HOU31	Voz del Bar, Panama	
6003	49.97	0.5		Tripolis, Greece			49.63	5		Athens (FBS), Greece	
6004	49.96	7.5		Colombo, Ceylon			49.63	7.5	ZYS33	R. Clube Paranaense, Brazil	
	49.96	5		Kathmandu, Nepal			49.63	10	CXA61	El Espectador, Uruguay	
6005	49.96	20		Berlin, RIAS, Germany		6050	49.59	0.5	HRLP3	R. America, Honduras Rep.	
	49.96	20		Paradys, So. Africa			49.59			Tbilisi, USSR	
	49.96	0.15	4VEB	R. Caraibes, Haiti			49.59	15/100		BBC, London, Gt. Britain	
	49.96	0.25	VRH6	Suva, Fiji			49.59	5.6		Kigali, Ruanda-Urundi	
	49.96	0.3	HRQR4	La Voz del Pueblo, Hond			49.59			R. Hanoi, Vietnam (Dem. R.)	
	49.96	3.5		R. Zanzibar, Zanzibar			49.59	2	VTW2	Tarawa, Gilbert Isl.	
	49.96	7.5/100		Warsaw, Poland			49.59	25	HCJB	Voz de los Andes, Ecuador	
6006	49.95	1	TIHGB	R. Reloj, Costa Rica			49.59	0.8	TGXB	R. Centro Musical, Guatem.	
6010	49.92	1	CJCX	Sydney, Canada		6054	49.55	5	HJEX	R. Pacifico, Colombia	
	49.92	0.25/10VUC		AIR, Calcutta, India		6055	49.55	7.5	PRB21	R. Panamericana, Brazil	
	49.92	1	CE601	Emisoras Norte, Chile			49.55			Petrozavodsk, USSR	
	49.92	15/100		BBC, London, Gt. Britain			49.55	10/50	JOZ2	Tokyo, Japan	
	49.92	50/60/100		R. Roma, Italy			49.55	0.25	DYH4	Dumaguete City, Philipp.	
	49.92	35/10		Okinawa (VOA), Ryukyu Isl.			49.55	10/50		Kuwait, Kuwait	
	49.92			R. Thailand, Thailand			49.55	5	CXA53	La Voz de Melo, Uruguay	
	49.92	2.5	XEOI	Radio Mil, Mexico			49.55	110	WLWO	Bethany, USA	
	49.92	3	OAX4Q	R. Victoria, Peru			49.55	20/50		R. Liberty, Germany	
	49.92	10	HJFK	La Voz Amiga, Colombia			49.55	100		Praha, Czechoslovakia	
6015	49.88	10/100		R. Free Europe, Germany			49.53	0.5	OAX2A	R. Trujillo, Peru	
	49.88			Kiev, USSR		6060	49.50	0.3	HRYN4	Voz del Merendon, Hond. R.	
	49.88	5	PR48	R. Cl. de Pernambuco, Br.			49.50	0.15	4VCP	L.V du Nord, Haiti	
	49.88	0.5	HCEB4	R. Manta, Ecuador			49.50	15/100		BBC, London, Gt. Britain	
6020	49.83	10		Salisbury, Rhodesia			49.50	50	CKRZ	R. Canada, Canada	
	49.83	5	HJCX	Voz de Colombia, Colombia			49.50			Caltanissetta, Italy	
	49.83			Kiev, USSR			49.50	1.5	TGXX	R. Ciro, Guatemala	
	49.83	10/100		R. Free Europe, Germany			49.50	1	TGRLA	R. Landiv, Guatemala	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico			49.50	50/60/100		R. Roma, Italy	
	49.83	7.5	ZL20	Wellington, N. Zealand			49.50	0.75	HCAC1	Voz de Democracia, Ecuad.	
	49.83	1	TGDA	La Voz de Occidente, Guat.			49.50	16	LRA31	R. Nacional, Argentina	
	49.83			Komsomolsk, USSR		6062	49.48	2		Bangkok, Thailand	
	49.83			Khabarovsk, USSR			49.48		OAX8L	R. Telesar, Peru	
	49.83	2	CE602	Diego Portales, Chile		6065	49.46	0.45	YNEQ	R. Universal, Nicaragua	
	49.83	10		R. Nederland, Holland			49.46	10		R. Nac. Brasilia, Brazil	
	49.83	0.25	HCNF5	R. Dif. del Ecuador			49.46	10/100	VUB	AIR, Bombay, India	
	49.83	7.5		Amman, Jordan			49.46	0.2	HCEM1	Ondas Carchenses, Ecuador	
	49.83	1	HROW2	R. Monserrat, Honduras			49.46	100		Hörby, Sweden	
6025	49.79	10	ZYR63	R. Em. de Piratininga, Br.			49.46	15/240		Peking, China	
	49.79	110	WLWO	Bethany, USA			49.46	5	XEXG	Mexico City, Mexico	
	49.79	0.4		Van, Turkey		6070	49.42	1	CFRX	Toronto, Canada	
	49.79	10		R. Atlantico, Portugal			49.42	15/100		BBC, London, Gt. Britain	
	49.79	100	CSA52	R. Nacional, Portugal			49.42			Petropavlovsk, USSR	
	49.79	1	ZPA10	R. Paraguay, Paraguay			49.42	120		R. Sofia, Bulgaria	
	49.79	5	YNX	R. Equis, Nicaragua			49.42	0.25	CP18	R. El Condor, Oruro, Boliv.	
	49.79	0.1	HI1J	Voz de Oriente, Dom. Rep.			49.42	1	HSK5	R. Thailand, Thailand	
	49.79	50/100		R. Nederland, Holland			49.42	10/50		Karachi, Pakistan	
	49.79	5		R. Malaya, Malaya			49.42	0.3	OAX4S	Onda Popular, Peru	
	49.79	10	CR6RZ	R. Angola, Angola			49.42	5	CE607	R. Soc. Nac. de Minería, Chi	
	49.79	120/240		Peking, China			49.42	0.4	TGPA	R. Palmeras, Guatemala	
6028	49.77	1	OAX8B	R. Nac. Iquitos, Peru			49.42	5		Biak, New Guinea	
6030	49.75	0.1	CFVP	Calgary, Canada			49.42	100		Accra, Ghana	
	49.75	20		Mühlacker (SDR), Germany			49.42	4		Ziguinchor, Senegal	
	49.75	25/100		Vatican Radio		6075	49.38	1	TIGG	R. Excelsior, Costa Rica	
	49.75	0.25	HP5B	R. Cadena Miramar, Pan.			49.38	10	HJGT	R. Sutatenza, Colombia	
	49.75	2	DZH6	"The Call of Orient", Philip.			49.38	20		Osterloog (NDR), Germany	
	49.75	5	TGTQ	R. Internacional, Guat.			49.38	2.5	CXA3	R. Ariel, Uruguay	
	49.75	0.2	HCRQ2	Voz del Tropic, Ecuador			49.38	7.5		Colombo, Ceylon	
	49.75	100	YIH62	Baghdad, Iraq			49.38			Erevan, USSR	
6035	49.71	30		Monte Carlo, Monaco			49.38	7.5/100		Warsaw, Poland	
	49.71	10	HLK52	Seoul, Korea			49.38	7.5/10		Dacca, Pakistan	
	49.71	10		Seoul (VUNC), Korea			49.38	35/100		Okinawa (VOA), Ryukyu Isl.	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
6075	49.38	100		Honolulu (VOA), Hawaii		6125	48.98	10		R. Luluabourg, Congo Rep.	
	49.38	0.5	HRMH5	La Voz del Junco, Hond. R.			48.98	10		R. Nac. de S. Paulo, Br.	
6080	49.34	15/100		BBC, London, Gt. Britain		6130	48.94	0.25	PRG9	R. Radiodif. HIG, Dom. Rep.	
	49.34	120/240		Peking, China			48.94	1	CE613	R. El Morro, Chile	
	49.34	0.25	DZ17	Voice of Manila, Philipp.			48.94	2	VL76	Port Moresby, New Guinea	
	49.34	35/100		Tangier (VOA), Morocco			48.94	1.5	HCFB2	R. Condor, Ecuador	
	49.34	20		Elisabethville, Congo (Rep.)			48.94	0.2/100	LKJ	R. Norway, Norway	
	49.34	0.1	CKFX	Vancouver, Canada			48.94	1		R. Lao, Laos	
	49.34	7.5	ZL7	Wellington, New Zealand			48.94	100		R. Nacional, Spain	
	49.34			Nauen, Germany (DDR)			48.94	0.5	CHNX	Halifax, Canada	
	49.34	10	CSB51	R. Ci. Portuguese, Portugal			48.94	10		AIR, Gauhati, India	
	49.34	1.5	TGSM	R. Nac. S. Marcos, Guatem.		6135	48.90	0.25	HRME2	La Voz del Patio, Hond. R.	
	49.34		HCED2	R. Bolivar, Ecuador			48.90	1	CR6RU	Carmona, Angola	
6082	49.32	10	OAX4Z	R. Nacional, Lima, Peru			48.90	1	HJEV	La Voz del Valle, Col.	
6085	49.30	10		Munich (BR), Germany			48.90	0.3	OCX4M	R. Pasco, Peru	
	49.30			Tallinn, USSR			48.90	1	CE613	Univ. de Concepción, Chile	
	49.30	50/200	KNBH	Dixon, USA			48.90	4		Papéete, Tahiti	
	49.30	0.4		Izmir, Turkey			48.90	7.5		R. Malaya, Malaya	
	49.30	10		R. Goa, Goa			48.90	120/240		Peking, China	
	49.30	1	HRNQ4	R. Morazan, Hond. Rep.			48.90	0.5		R. Grigota, Bolivia	
	49.30	10/100	VUD	AIR, Delhi, India			48.90	7.5	PRC21	R. Soc. Gaucha, Brazil	
	49.30	50/100		R. Nederland, Holland			48.90			Kaunas, USSR	
	49.30	10		R. Stanleyville, Congo Rep.			48.90			Ulan Ude, USSR	
6090	49.26	2	VLI6	Sydney, Australia			48.90	0.5		Kozani, Greece	
	49.26	0.2		Dalat, Vietnam (Rep.)			48.90	20/50		R. Liberty, Germany	
	49.26	15/100		BBC, London, Gt. Britain		6140	48.86	15/100		BBC, London, Gt. Britain	
	49.26	0.25	4VO	R. Lumiere, Haiti			48.86	20/100	ORU	Wavre, Belgium	
	49.26	50		R. Luxembourg			48.86		OAX9B	Chachapoyas, Peru	
	49.26	15		R. Cambodia, Cambodia			48.86	1		R. Tripoli, Libya	
	49.26			R. Thailand, Thailand			48.86	1	YNWA	R. Mundial, Nicaragua	
	49.26	3	BEC26	Taipei, Taiwan			48.86	10/100		R. Japan, Japan	
	49.26	5/40	LR1	R. Belgrano, Argentina			48.86	1		Addis Ababa (LWF), Ethiop.	
	49.26	1	XECMT	Ci. Mante, Mexico			48.86	2	VLW6	Perth, Australia	
6095	49.22	10/100		R. Free Europe, Germany			48.86	0.25	DYH2	Voice of Cebu, Philippines	
	49.22	25	ZYB7	R. Dif. de Sao Paulo, Br.			48.86	8/100		Munich (VOA), Germany	
	49.22	1/75		Chiayi (BBC), Taiwan			48.86	0.5	TGHC	R. Universal, Guatemala	
	49.22	20		Paradys, So. Africa			48.86	10	CXA20	R. Monte Carlo, Uruguay	
	49.22	0.4	HC5PT	Voz del P. Socorro, Ecuador			48.86	1	HCOV5	Ondas del Volante, Ecuador	
6100	49.18	0.3	HCSP4	Voz de Volantes, Ecuador		6145	48.82	10/100		Allouis, France	
	49.18	0.25	CE610	R. Calama, Chile			48.82	20/100	DMQ6	Deutsche Welle, Germany	
	49.18	15/120		Peking, China			48.82	5		Enugu, Nigeria	
	49.18	20/100	DMQ6	Deutsche Welle, Germany			48.82	0.3	HRXN4	R. Concordia, Hond. R.	
	49.18	10/100		R. Belgrade, Yugoslavia			48.82	120/240		Peking, China	
	49.18	0.25	DYH3	R. Cebu, Philippines			48.82	50/200	KNBH	Dixon, USA	
	49.18	1	TGOA	La Voz de las Americas, Gu.			48.82	35/100		Okinawa (VOA), Ryukyu Isl.	
	49.18	3		Jeddah, Saudi Arabia			48.82	1	HJEQ	La Voz de Cauca, Colombia	
	49.18	0.4	YNEC	R. Fer. Cordoba, Nicaragua			48.82	50	PRL9	R. Nacional, Rio de Jan., Br.	
	49.18	0.54		LV de la Vie Marie, Haiti		6150	48.78	5	VLR6	Melbourne, Australia	
6101	49.17	10		Forest Side, Mauritius			48.78	15/100		BBC, London, Gt. Britain	
6105	49.14	1	HJDM	R. Vision, Colombia			48.78	5	CE615	R. Coop. Vitalicia, Chile	
	49.14	0.25	XEQM	Merida, Mexico			48.78	10/100		R. Belgrade, Yugoslavia	
	49.14	5	ZYN6	Ceará R. Clube, Brazil			48.78	120/240		Peking, China	
	49.14	10/100		R. Free Europe, Germany			48.78	20		Paradys, So. Africa	
	49.14	1	OAX6F	R. Nac. Tacna, Peru			48.78	10		R. Lao, Laos	
	49.14	25	BEC61	Taipei, Taiwan			48.78	0.5	TGAZ	R. Continental, Guatemala	
6110	49.10			Radio Kashmir, India			48.78	0.5	OBX4G	R. Excelsior, Peru	
	49.10	15/100		BBC, London, Gt. Britain		6155	48.74	3	CSB52	R. Renascença, Portugal	
	49.10	7.5	DZ14	Manila, Philippines			48.74	1/50	OEI21	Wien, Austria	
	49.10	0.5	TGQA	R. Nacional, Guatemala			48.74	10	CXA13	R. Carve, Uruguay	
	49.10	1	HRXW2	R. Comayagüela, Hond. R.			48.74	0.25	4VWA	R. Citadelle, Haiti	
	49.10	5	CE611	Soc. Nac. de Agricult., Chile			48.74	120/240		Peking, China	
	49.10	2	YVKQ	R. Tropical, Venezuela			48.74	35		Thessaloniki (VOA), Greece	
6112	49.08	0.25		Nairobi (FBS), Kenya			48.74	7.5		R. Tabriz, Iran	
	49.08	1	HI1Z	Broadcasting Nac., Dom. R.			48.74	0.3	HCTL4	R. Costa Azul, Ecuador	
6115	49.06	1	HJNE	R. El Sol, Colombia			48.74	2	HRUC	R. Centro, Honduras	
	49.06	100	ZYC7	R. Tupi, Brazil			48.74	1/10		Tokyo (FEN), Japan	
	49.06	2	CXA73	R. Clarin, Uruguay		6160	48.70	1	CP40	Emisora LAB, Bolivia	
	49.06	1		R. Douala, Cameroon (Fr.)			48.70	0.2	HI1R	Voz de Fundación, Dom. R.	
	49.06	1	OBX4Z	R. Luz, Peru			48.70	1	OCX4G	R. Mundo, Peru	
	49.06	0.3	OAX4H	R. Mundial, Peru			48.70	10	HJKJ	Nueva Granada, Colombia	
	49.06	20		Deutschsender, Ger. (DDR)			48.70	50		Algier 3, Algeria	
	49.06			Khabarovsk, USSR			48.70	0.5	CBUX	Vancouver, Canada	
	49.06	35/100		Tangier (VOA), Morocco			48.70	0.25	TGZA	R. Club, Guatemala	
6120	49.02	10	LRX1	El Mundo, Argentina			48.70	10/100		R. Free Europe, Germany	
	49.02	2.5	4VE	LV Evangelique, Haiti			48.70	1	HCSJ1	R. Javier, Ecuador	
	49.02	15	OIX7	Pori, Finland		6165	48.66	20		Saigon, Vietnam	
	49.02	7.5/20		BBC, Cyprus			48.66	100	HER3	Schwarzenburg, Switzerland	
	49.02	10		AIR, Hyderabad, India			48.66	15/100		BBC, London, Gt. Britain	
	49.02	5	YDI4	Surabaya, Indonesia			48.66	7.5	ZYR58	R. Cultura, Brazil	
	49.02	120/240		Peking, China		6170	48.62	10		AIR, Lucknow, India	
6125	48.98	10	CXA4	S.O.D.R.E., Uruguay			48.62	1		Cayenne, Fr. Guiana	
	48.98	1	HRQ4	R. Suyapa, Honduras R.			48.62	8/100		Munich (VOA), Germany	
	48.98	15/100		BBC, London, Gt. Britain			48.62	120		R. Sofia, Bulgaria	
	48.98	0.35	CP15	El Condor, La Paz, Bol.			48.62	120/240		Peking, China	
	48.98	10/100		R. Free Europe, Germany			48.62	35/100		Tangier (VOA), Morocco	
	48.98	35/100		Poro (VOA), Philippines			48.62	15/100		BBC, London, Gt. Britain	
	48.98	120/240		Peking, China			48.62	1	CXA21	R. Fenix, Uruguay	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
6170	48.62	10	YDL3	Padang, Indonesia		6280	47.74	0.3		Beira, Mozambique	
	48.62	7.5/20		BBC, Cyprus		6299	47.62	1		Tec. Univ., Istanbul, Turkey	
	48.62	0.2	HCPJ2	R. Fluminense, Ecuador		6300	47.62	0.75	OBX4P	R. Miraflores, Peru	
	48.62	0.3	OBX4B	R. Corporacion, Peru		6305	47.58	1		Andorra, Andorra	
	48.62	10	DUH2	Philipp. Br., Philipp.		6307	47.57	1	HI8Z	R. Santiago, Dom. Rep.	
	48.62	10	YVKO	R. Nacional, Venezuela		6325	47.43	0.25	HI5B	Emis. HI4B/5B, Dom. Rep.	
6175	48.58	7.5		R. Singapur, Singapore		6345	47.30	1	COCF	Union Radio, Cuba	
	48.58	20		Kaduna, Nigeria		6350	47.25	0.5	HCIW5	R. Mercurio, Ecuador	
	48.58	0.3	HP5G	R. Panamericana, Panama		6353	47.22			Ashkhabad, USSR	
	48.58	0.3	OAX7C	R. Tahuantinsuyo, Peru		6380	47.06			R. Thailand, Thailand	
	48.58	10		R. Guarani, Brazil		6383	47.00	25		Ulan Bator, Mongolia	
	48.58	15/100		BBC, London, Gt. Britain		6435	46.62	1	COCW	R. Rebelde, Cuba	
	48.58	10/100		Allouis, France		6500	46.16			Chinghai, China	
	48.58	1	HRTW4	Un. R. Hondureña, Hond. R.		6525	45.98	0.3		Carpenissio, Greece	
	48.58	5/7.5		R. Athens, Greece		6590	45.52	0.1		Chios, Greece	
	48.58	2		Malaga (RNE), Spain		6595	45.48	15/120		Peking, China	
6176	48.58			Shensi, China		6635	45.24		HCRL2	R. Quinta Piedad, Ecuad.	
6178	48.55	1	4VSC	LV de St. Marc, Haiti		6670	45.00			R. Calatrava, Sp. Guinea	
6180	48.54	1	TGWB	R. Nacional, Guatemala		6700	44.74	0.4		R. Sanandaj, Iran	
	48.54	15/100		BCC, London, Gt. Britain			44.74	0.3	OAX1A	R. Delcar, Peru	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina		6730	44.58			Tashkent, USSR	
	48.54	1/75		Taipei (BBC), Taiwan		6790	44.18	15/120		Peking, China	
	48.54	120/240		R. Peking, China		6810	44.05	15/120		Peking, China	
	48.54	0.3	HCRT6	R. Paz y Bien, Ecuador		6820	43.99			Minsk, USSR	
6185	48.50	10		Addis Ababa, Ethiopia		6825	43.96			Tashkent, USSR	
	48.50	7.5/50		Malolos (VOA), Philipp.			43.96	15/120		Peking, China	
	48.50	10		Ibadan, Nigeria		6840	43.85			Inner Mongolia, China	
	48.50	50/200	KCBR	Delano, USA		6850	43.80	0.35		Warsaw, Poland	
	48.50	10	ZYR77	R. Bandeirantes, Brazil		6890	43.54	15/120		Peking, China	
	48.50	50	HJCT	R. Televisora Nac., Col.		6925	43.33			Yunnan, China	
	48.50	0.2	LLI	R. Norway, Norway		6974	43.02			Inner Mongolia, China	
	48.50	0.5	HRMT4	R. Molino Rojo, Honduras		6995	42.89	1		R. Mediterraneo, Spain	
	48.50	0.2	HCAX2	La Voz de Vines, Ecuador		7000	42.86	1	EFE34	R. Atlantico, Canary Isl.	
	48.50	35		Courier (VOA), Greece		7010	42.80	10/50		Karachi, Pakistan	
	48.50	10/100		R. Free Europe, Germany		7018	42.74	0.5		Istanbul Tec. Univ., Turkey	
	48.50	7.5		Colombo, Ceylon		7035	42.64	120/240		Peking, China	
6190	48.47	25/100		Vatican Radio		7050	42.55	50/100		Cairo, Un. Arab. Republic	
	48.47	0.6		R. Bremen, Germany			42.52			Sinkiang, China	
	48.47	110	WLWO	Bethany, USA		7060	42.49	120/240		Peking, China	
	48.47	0.1	HI9U	Broadc. Tropical, Dom. Rep.		7065	42.46	15/240		Peking, China	
	48.47	0.3	OAX4G	R. Lima, Peru		7070	42.42	1	CR6RR	R. Diamang, Angola	
	48.47	0.25	YNUW	R. Dario, Nicaragua		7080	42.37	120/240		Peking, China	
	48.47	50	CE619	R. Corporacion, Chile			42.37	1	HSQ	Bangkok, Thailand	
	48.47	1	4XB44	Tel Aviv, Israel		7085	42.32	100		R. Iran, Iran	
	48.47	100		Bucharest, Rumania		7090	42.31	25		R. Tirana, Albania	
	48.47	1	YSUA	R. Mil Cincuenta, El Salv.		7094	42.28	0.3		Jannina, Greece	
	48.47	0.25	HCJC3	R. 18 de Noviembre, Ecuad.		7095	42.28	120/240		Peking, China	
	48.47	10/100	VUD	AIR, Delhi, India		7096	42.27	1		Lahore, Pakistan	
	48.47	50		Sebaa-Aioun, Morocco		7100-7300 kc/s (41 m.b.)					
6195	48.43	15/100		BBC, London, Gt. Britain		7100	42.25	15/120		Peking, China	
	48.43	25		R. Andorra, Andorra		7105	42.22	10/100		R. Free Europe, Germany	
	48.43	10		Usumbura, Ruanda-Urundi			42.22	1/50	OEI34	Wien, Austria	
	48.43	7.5/100		Warsaw, Poland			42.22	5		R. Brazzaville, Congo	
	48.43	1	HJEZ	Voz de Cali, Colombia			42.22	10/100	VUD	AIR, Delhi, India	
	48.43	0.5	HRD2	Voz de Atlantida, Hond. R.			42.22	1	CR6RO	R. Clube do Bie, Angola	
	48.43	1	HCPT6	R. Cosmopolita, Ecuador			42.22	4		R. Niger, Niger	
	48.43			Pyongyang, Korea			42.22	100		R. Nacional, Spain	
	48.43	10	PRD21	Emis. Continental, Brazil		7110	42.19	10/35		Colombo (VOA), Ceylon	
	48.43	0.5	CP23	R. Guadalquivir, Bolivia			42.19	15/100		BBC, London, Gt. Britain	
	48.43		OAZ4E	R. Mineria, Peru			42.19	7.5/100		BBC, Singapore	
6198	48.40	0.25	OAX1B	R. Piura, Peru			42.19	10		Rawalpindi, Pakistan	
6200	48.39	1	YNUJ	R. Norte, Nicaragua			42.19	20	YDP3	Medan, Indonesia	
	48.39	0.1	TGKN	R. Latina, Guatemala		7115	42.16	120/240		Peking, China	
	48.39	1.2	4VHW	R. Haiti, Haiti			42.16	10/100		R. Free Europe, Germany	
	48.39	10	HRNQ	R. Morazan, Honduras			42.16	10		Sebaa-Aioun, Morocco	
	48.39	120/240		Peking, China		7118	42.14	10	YDU6	Denpasar, Indonesia	
	48.39	1	OAX7A	R. Cuzco, Peru		7120	42.13	15/100		BBC, London, Gt. Britain	
			6210-7100 kc/s				42.13	10/100	VUD	AIR, Delhi, India	
6210	48.31	120/240		Peking, China			42.13	4		R. Tchad, Tchad	
	48.31	20	HI2U	R. Caribe, Dom. Rep.		7125	42.11	35		Courier (VOA), Greece	
6212	48.29	15/120		Peking, China			42.11	6		Nairobi, Kenya	
6215	48.27	1	TIGPH	R. Monumental, Costa Rica			42.11	50	ZXK4	Rangoon, Burma	
6225	48.19	15/120		Peking, China			42.11	18		R. Nationale, Guinea (Rep.)	
6230	48.10	0.15		R. Libertad, Bolivia			42.11	7.5/100		Warsaw, Poland	
6235	48.10	10/50		Karachi, Pakistan			42.11	120/240		Peking, China	
	48.10	0.5	HCNK3	R. Cariamaanga, Ecuador			42.11	35/100		Okinawa (VOA), Ryukyu Isl.	
	48.10	1	OAX6I	R. Universidad, Peru			42.11	35/100		Tangier (VOA), Morocco	
6236	48.08	100		Budapest, Hungary		7130	42.08	15/100		BBC, London, Gt. Britain	
6240	48.07	0.1		Mytilini, Greece			42.08	1/75		Taipei (BBC), Taiwan	
	48.07	0.7/5		S. Isabel, Sp. Guinea			42.08	7.5/20		BBC, Cyprus	
6250	48.00			Pyongyang, Korea			42.08	20/50		R. Liberty, Germany	
	48.00	1	HCVC3	R. Centinela, Ecuador			42.08	10		Peshawar, Pakistan	
6255	47.96	0.5	TGRT	R. Nac. Tikal, Guatemala			42.08	100		Praha, Czechoslovakia	
6260	47.92			Chinghai, China		7132	42.06			Kiev, USSR	
6270	47.87	0.45	CP9	R. Amata, Bolivia		7135	42.05	15/100		BBC, London, Gt. Britain	
	47.87	0.3	HCVM6	R. Once de Nov., Ecuad.			42.05	100		R. Abidjan, Ivory Coast	
6280	47.77			Sinkiang, China			42.05	30		R. Monte Carlo, Monaco	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
7135	42.05	35/100		Tangier (VOA), Morocco		7210	41.61	100	HEI3	Schwarzenburg, Switzerland	
	42.05	7.5/50		Malolos (VOA), Philipp.			41.61	100		Hörby, Sweden	
	42.05	120/240		Peking, China			41.61	120/240		Peking, China	
7140	42.02	15/100		BBC, London, Gt. Britain			41.61	0.25/10	VUC	AIR, Calcutta, India	
	42.02	7.5		Dacca, Pakistan			41.61	15/100		BBC, London, Gt. Britain	
	42.02		YDR2	Ambon, Indonesia			41.61	5	YDH3	Semarang, Indonesia	
	42.02	10		AIR, Hyderabad, India			41.61			Khabarovsk, USSR	
7142	42.01	0.5	CR6RA	R.Clube de Angola, Angola			41.61	0.2/100	LLS	R. Norway, Norway	
7145	41.99	10/100		R. Free Europe, Germany			41.61	25		R. Dakar, Senegal	
	41.99	1	HSK6	R. Thailand, Thailand			41.61	10		Nairobi, Kenya	
	41.99	7.5/100		Warsaw, Poland			41.61			Irkutsk, USSR	
	41.99	50		R. Mali, Mali		7214	41.58	0.5		Kavalla, Greece	
	41.99	1		R. Laos, Laos		7215	41.58	1	BEC27	AFRS, Taiwan	
7150	41.96	15/100		BBC, London, Gt. Britain			41.58	25/100		R. Abidjan, Ivory Coast	
	41.96	1/75		Chiayi (BCC), Taiwan		7220	41.55	15/100		BBC, London, Gt. Britain	
	41.96	5		R. Brazzaville, Congo			41.55	10/50/100		R. Australia, Australia	
	41.96			Erevan, USSR			41.55	20		Lusaka, Rhodesia	
	41.96			Khabarovsk, USSR			41.55	7.5	YDF5	Djakarta, Indonesia	
	41.96	15/240		Peking, China			41.55	100		Budapest, Hungary	
	41.96	10		AIR, Gauhati, India			41.55	4		Bangui, C. African Rep.	
	41.96	6		Nairobi, Kenya		7225	41.52	1/75		Taipei (BCC), Taiwan	
	41.96	10/100	VUD	AIR, Delhi, India			41.52	10/100	VUD	AIR, Delhi, India	
	41.96	5		R. Mogadiscio, Somali			41.52	7.5		Dacca, Pakistan	
7155	41.92	4		Tananarive, Madagascar			41.52			Szechuan, China	
	41.92	100		Amman, Jordan			41.52	10/100		R. Free Europe, Germany	
	41.92	10/100		R. Free Europe, Germany			41.52	100		Bucharest, Rumania	
	41.92	35/100		Okinawa (VOA), Ryukyu Isl.			41.52	1		Lahore, Pakistan	
	41.92	10/100	VUD	AIR, Delhi, India			41.52	10		Sebaa-Aioun, Morocco	
7160	41.90	10/100		Allouis, France		7230	41.49	20		Paradys, So. Africa	
	41.90	1	CR6RD	Nova Lisboa, Angola			41.49	5	JKH	Tokyo, Japan	
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.			41.49	15/100		BBC, London, Gt. Britain	
	41.90	1	DUA9	R. University, Philipp.			41.49	0.35	CR6RM	Moçamedes, Angola	
	41.90	120/240		Peking, China			41.49	100		Hörby, Sweden	
	41.90	35/100		Tangier (VOA), Morocco			41.49	4/25		Onagadougou, Upper Volta	
	41.90	10		AIR, Bhopal, India			41.49	120/240		Peking, China	
	41.90	7.5		R. Sarawak, Sarawak			41.49	1	HSQ	Bangkok, Thailand	
7161	41.89	0.15	CR6RB	R.Cl. de Benguela, Angola		7235	41.47	10/100		R. Free Europe, Germany	
	41.89	0.5		Serrai, Greece			41.47	100		Praha, Czechoslovakia	
7165	41.87	10/100		R. Free Europe, Germany			41.47	10		Colombo, Ceylon	
	41.87	20		Dar-es-Salaam, Tanganyika			41.47	10/100	VUD	AIR, Delhi, India	
7170	41.84	10/100	VUD	AIR, Delhi, India			41.47	25/100		Vatican Radio	
	41.84	1	CR6RD	Nova Lisboa, Angola			41.47	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.84	20/50		R. Liberty, Germany		7238	41.45	5		R.Clube de Mozambique	
	41.84	50		Algier 4, Algeria		7240	41.44	15/120		Peking, China	
	41.84	7.5		Aden, Aden			41.44	50	DZI9	Call of the Orient, Philipp	
	41.84	15/120		Peking, China			41.44	10/100		R. Belgrade, Yugoslavia	
	41.84	4		Dakar, Senegal			41.44	0.2/100	ILR	R. Norway, Norway	
7175	41.81	10/100		R. Free Europe, Germany			41.44	10/100	VUB	AIR, Bombay, India	
	41.81			Kiev, USSR			41.44	10/100		Allouis, France	
	41.81			Caltanissetta, Italy			41.44	10		Nairobi, Kenya	
	41.81	35/100		Poros (VOA), Philippines			41.44	1.5	BEC28	Taichung, Taiwan	
	41.81	4		R. Congo, Congo			41.44	4		R. Garoua, Fr. Cameroon	
7180	41.78	1	BEG23	Taipei, Taiwan		7245	41.41	4/30		R. Mauritania, Mauritania	
	41.78	120/240		Peking, China			41.41	20		Saigon, Vietnam	
	41.78	3		Benghazi, Libya			41.40	20/50		R. Liberty, Germany	
	41.78	100		Baghdad, Iraq			41.41	10/100		R. Free Europe, Germany	
	41.78	10/100	VUD	AIR, Delhi, India			41.40	0.25	CR6RE	Malanje, Angola	
7185	41.75	15/100		BBC, London, Gt. Britain		7250	41.38	15/100		BBC, London, Gt. Britain	
	41.75			Kiev, USSR			41.38	1/75		Taipei (BCC), Taiwan	
	41.75	20		Paradys, So. Africa			41.38	25/100		Vatican Radio	
	41.75	10/100	VUD	AIR, Delhi, India			41.38	10		AIR, Lucknow, India	
7189	41.73	20	4XB49	Tel Aviv, Israel			41.38	7.5		R. Singapore, Singapore	
7190	41.72	10		Colombo, Ceylon		7254	41.36	7.5		R. Clube de Mozambique	
	41.72	10/50/100		R. Australia, Australia		7255	41.35	120		R. Sofia, Bulgaria	
	41.72	30		R. Dahomey, Dahomey			41.36	20	YDJ2	Jogjakarta, Indonesia	
	41.72	10/100	VUD	AIR, Delhi, India			41.36	1/75		Taipei (BCC), Taiwan	
	41.72	10	HLK30	Seoul, Korea		7260	41.32	15/100		BBC, London, Gt. Britain	
	41.72	1		Biak, New Guinea			41.32	10/100	VUM	AIR, Madras, India	
7192	41.71	10/100		R. Free Europe, Germany			41.32	5		Tananarive, Madagascar	
7195	41.70	100		Bucharest, Rumania			41.32	4		Dzaoudzi, Comores Isl.	
	41.70	10/100		R. Japan, Japan		7262	41.30	3.5	BEC71	Taipei, Taiwan	
	41.70	15/120		Peking, China		7265	41.29	1.5		Bad Dürrenheim (SWF), Ger.	
7200	41.67	15/100		BBC, London, Gt. Britain			41.29	12		Saigon, Vietnam	
	41.67	1/50	OEI31	Wien, Austria			41.29	15/240		Peking, China	
	41.67	3.5	BEC36	Taipei, Taiwan			41.29	4		Lomé, Togo	
	41.67			Kiev, USSR			41.29	35		Courier (VOA), Greece	
	41.67	8/100		Munich (VOA), Germany		7270	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.67	10/100		R. Belgrade, Yugoslavia			41.27	35/100		Tangier (VOA), Morocco	
	41.67	10		R. Malaya, Malaya			41.27	1.5	BEC34	Hualien, Taiwan	
	41.67	120/240		Peking, China			41.27	25		R. Gabon, Gabon	
	41.67	20		Omdurman, Sudan			41.27	12		Motala, Sweden	
7205	41.64	0.5	CR7RB	R. Pax, Mozambique			41.27	25/100		Vatican Radio	
	41.64	1		R. Hue, Vietnam (Rep.)			41.27			Erevan, USSR	
	41.64	10/100		R. Free Europe, Germany			41.27			Magadan, USSR	
	41.64	35		Thessaloniki (VOA), Greece			41.27	10/100	VUD	AIR, Delhi, India	
	41.64	120/240		Peking, China			41.27			Radio Kashmir, India	
	41.64	4		Yaounde, Cameroon		7275	41.24	50/60/100		R. Roma, Italy	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
7275	41.24	20		Paradys, So. Africa		9365	32.04			Inner Mongolia, China	
	41.24	10/50		Karachi, Pakistan		9366	32.04	50		R. Nacional, Spain	
	41.24	35		Colombo (VOA), Ceylon		9370	32.02	100		R. Nacional, Spain	
7278	41.18	0.2	CR6RP	Novo Redondo, Angola		9377	31.99			Khabarovsk, USSR	
7280	41.21	10		Dar-Es-Salaam, Tanganyika		9380	31.98			Alma Ata, USSR	
	41.21	10/100		Allouis, France			31.92	1	OAX4J	R. La Cronica, Peru	
	41.21	15/100		BBC, London, Gt. Britain		9410	31.88	15/100		BBC, London, Gt. Britain	
	41.21	10		AIR, Gauhati, India		9444	31.77	10	CP39	La Cruz del Sur, Bolivia	
	41.21	10/50		Karachi, Pakistan		9450	31.75	1	OAX4W	R. America, Peru	
	41.21	1.5		BEC24 Taipei, Taiwan		9457	31.73	120/240		Peking, China	
	41.21	10		R. Malaya, Malaya		9470	31.68			Sinkiang, China	
	41.21			Komsomolsk, USSR		9480	31.65	120/240		Peking, China	
	41.21	1	DXH2	Mindanao, Philipp.		9485	31.63	50	HI3U	R. Caribe, Dom. Rep.	
7285	41.18	100	TAS	R. Ankara, Turkey		9490	31.61	1	EFE34	R. Atlantico, Canary Isl.	
	41.18	5	JKI	Tokyo, Japan			31.61			R. Tibet, China	
	41.18	10/100		R. Free Europe, Germany		9492	31.60			Inner Mongolia, China	
	41.18	5		Ibadan, Nigeria						31 metre band	
	41.18	10		Lusaka, Rhodesia		9500	31.58			Petropavlovsk, USSR	
7290	41.15	5		Kisumu, Kenya			31.58			Magadan, USSR	
	41.15	12	3WT12	Saigon, Vietnam (Rep.)			31.58	120/240		Peking, China	
	41.15	10/100	VUD	AIR, Delhi, India			31.58			Chinghai, China	
	41.15	10/50		Karachi, Pakistan			31.58	5	CE950	Corp. Chilena, Chile	
	41.15	50/60/100		R. Roma, Italy			31.58	0.2	OAX6H	R. Tacna, Peru	
	41.15	10		Addis Ababa, Ethiopia		9502	31.57	1	CR6RF	R. Cl. de Benguela, Angola	
7295	41.12	20	YDQ3	Makassar, Indonesia		9505	31.56	100		Praha, Czechoslovakia	
	41.12	0.25	EJAB3B	R. Cl. Tenerife, Canary Isl.			31.56	1.5	BEC32	Kaohsiung, Taiwan	
	41.12	120/240		Peking, China			31.56	7.5	PRB22	R. Record, Brazil	
	41.12	10/100		R. Free Europe, Germany			31.56	10/100	VUD	AIR, Delhi, India	
	41.12	7.5/100		Warsaw, Poland			31.56	10/100		R. Belgrade, Yugoslavia	
	41.12	10		Accra, Ghana			31.56	1	HOLA	R. Atlantico, Panama	
	41.12	5/7.5		R. Athens, Greece			31.56	10/100		R. Free Europe, Germany	
	41.12	10/50		Karachi, Pakistan			31.56	10/100		R. Japan, Japan	
7300	41.09	10		Colombo, Ceylon			31.56	50		Sebaa-Aioun, Morocco	
	41.09	5		Deutschsender, Ger. (DDR)		9510	31.55	15/100		BBC, London, Gt. Britain	
7305	41.07			R. Thailand, Thailand			31.55	120/240		Peking, China	
			7312-9500 kc/s				31.55	100		Bucharest, Rumania	
7312	41.03	0.15	YNWN	R. Granada, Nicaragua			31.55	15	YVXJ	R. Barquisimeto, Venezuela	
7315	41.01	120/240		Peking, China		9515	31.53	4		Tananarive, Madagascar	
	41.01	0.35		Warsaw, Poland			31.53	10	XEWW	Voz de la Am. Latina, Mexico	
7324	40.96			Kansu, China			31.53	100	TAT	R. Ankara, Turkey	
7325	40.96	15/100		BBC, London, Gt. Britain			31.53	50/60/100		R. Roma, Italy	
7330	40.93			Petropavlovsk, USSR			31.53			Caltanissetta, Italy	
	40.93			Ashkhabad, USSR			31.53	1	CR6RM	Mocamedes, Angola	
**7335	40.90	3	CHU	Stalinabad, USSR			31.53	10	CXA71	R. Sarandi, Uruguay	
	40.90	120/240		Dominion Obs., Canada		9520	31.51	10/100		Colombo, Ceylon	
7337	40.88	0.5	HJMM	Peking, China			31.51	2	VLT9	Port Moresby, New Guinea	
7345	40.85	100		La Voz de Colombia			31.53	50	OZF5	Herstedvester, Denmark	
7350	40.82	120/240		Praha, Czechoslovakia			31.51	10/50		Kuwait, Kuwait	
7370	40.71	15/120		Peking, China			31.51	1	OAX8E	R. Loreto, Peru	
7385	40.62			Sinkiang, China		9525	31.50	15/100		BBC, London, Gt. Britain	
	40.62	0.25		S. Cruz de la Palma, Canary I.			31.50	1/50	OEI49	Wien, Austria	
7398	40.56	7		Damascus, Syria			31.50	110	WLWO	Bethany, USA	
7480	40.08	15/240		Peking, China			31.50	10/100		R. Japan, Japan	
7500	40.00	15/120		Peking, China			31.50	7.5/100		Warsaw, Poland	
7602	39.46	0.5	YNRM	Peking, China			31.50	0.25		Nampula, Mozambique	
7620	39.37	0.5	HSQ	R. Musun, Nicaragua			31.50	20		Paradys, So. Africa	
7650	39.22			Bangkok, Thailand		9530	31.48	0.25/10	VUC	AIR, Calcutta, India	
	39.22	1		Murmansk, USSR			31.48	100		Amman, Jordan	
	39.22	0.25		Erzurum, Turkey			31.48	10/100	VUD	AIR, Delhi, India	
7660	39.16	0.25	YNMS	R. Philips, Nicaragua			31.48	10/100		R. Japan, Japan	
7670	39.11	50		R. Sofia, Bulgaria			31.48	15/100		BBC, London, Gt. Britain	
7753	38.67	0.15	YNCA	R. Atlantico, Nicaragua			31.48	5		Dar-Es-Salaam, Tanganyika	
7850	38.20	0.4		Bata, Sp. Guinea			31.48	1	YVMZ	Maracaibo, Venezuela	
	38.20	3		Tirana, Albania			31.48	35		Courier (VOA), Greece	
7880	38.08	4		Tananarive, Madagascar			31.48	8/100		Munich (VOA), Germany	
7890	38.02	0.1	YNBX	R. Oriental, Nicaragua			31.48	1	OAX6L	R. Nac. Tacna, Peru	
7935	37.81	20	PSL	Agencia Nacional, Brazil			31.48	0.25	COCO	R. Libre, Cuba	
7940	37.78	1.2		R. Alicante, Spain		9535	31.46	20		Lagos, Nigeria	
7948	37.75	1		Bissau, Port. Guinea			31.46			Simferopol, USSR	
8036	37.34	2		Beyruth, Lebanon			31.46	35/100		Poros (VOA), Philipp.	
8040	37.31	0.5		Rezaieh, Iran			31.46	100	HER4	Schwarzenburg, Switzerland	
8250	36.36			Alma Ata, USSR		9540	31.45	10/50/100		R. Australia, Australia	
8500	35.29			R. Thailand, Thailand			31.45	35/100		Tangier (VOA), Morocco	
8900	33.70	0.2	HCJZ3	R. Fenix, Ecuador			31.45	0.5	OAX4K	R. Central, Peru	
9009	33.03	7.5/50	4XB31	Tel Aviv, Israel			31.45	7.5	ZL2	Wellington, New Zealand	
9020	33.26	15/120		Peking, China			31.45	50	XZK5	Rangoon, Burma	
9025	33.23	1	COBZ	R. Salas, Cuba			31.45	7.5/100		Warsaw, Poland	
9064	33.09	15/120		Peking, China		9543	31.44	0.5	HRRH5	Voz de Occidente, Hond. R.	
9170	32.72	15/120		Peking, China		9545	31.43	100	HED5	Schwarzenburg, Switzerland	
9180	32.68			Petropavlovsk, USSR			31.43	50/200	KNBH	Dixon, USA	
9200	32.61	0.5	CE920	R. Militar Austral, Chile			31.43	0.25	XEFT	La Voz de Ver Cruz, Mex.	
9250	32.43			Alma Ata, USSR			31.43	7.5	ZYS43	R. Enis. Paranaense, Brazil	
9295	32.28	2.5	PRN9	R. Dif. D.E.S.P., Brazil		9545	31.43	50		R. Brazzaville, Congo	
9340	32.12	15/120		Peking, China			31.43	8/100		Munich (VOA), Germany	
	32.12			Alma Ata, USSR			31.43	100		Accra, Ghana	
9350	32.09	1	OAX6D	R. Continental, Peru		9550	31.41	100		Praha, Czechoslovakia	
9362	32.05	1	COBC	R. Progreso, Cuba			31.41	2	DZ12	Manila, Philipp.	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
9550	31.41	120/240		Peking, China		9615	31.20	7.5		Dacca, Pakistan	
	31.41	0.5	YDQ2	Makassar, Indonesia			31.20	35/50/100		Tangier (VOA), Morocco	
	31.41	15/100		BBC, London, Gt. Britain			31.20	15/100		BBC, London, Gt. Britain	
	31.41	10/100	VUB	AIR, Bombay, India			31.20	3	TIRICA	Voz de la Victor, Costa R.	
	31.41	0.2/100	LLD	R. Norway, Norway			31.20	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.41	5		Grenada, Windward Isl.		9620	31.19	7.5	CR7DE	R. Clube de Mozambique	
	31.41	2	OAX1Z	R. Nac. Tumbes, Peru			31.19	10/100	VUD	AIR, Delhi, India	
9555	31.40	5	YSS	R. Nacional, El Salvador			31.19	10/100		Allouis, France	
	31.40	0.1	CP6	R. Illimani, Bolivia			31.19	15/120		Peking, China	
	31.40	15/100		BBC, London, Gt. Britain			31.19	12		R. Saigon, Vietnam (Rep.)	
	31.40	120/240		Peking, China			31.19	10	ZYR96	R. 9 de Julho, Brazil	
	31.40			Stalinabad, USSR			31.19	1	COJK	Voz del Camagueyano, Cuba	
	31.40	0.5	XETT	La Hora Exacta, Mexico			31.19	100		Hörby, Sweden	
	31.40	15	OIX2	Pori, Finland			31.19	20	CXA6	S.O.D.R.E., Uruguay	
	31.40	8/100		Munich (VOA), Germany			31.19	10/100		R. Belgrade Yugoslavia	
	31.40	35/50/100		Tangier (VOA), Morocco		9621	31.19	0.25		Quelimane, Mozambique	
9560	31.38	15/100		BBC, London, Gt. Britain		9625	31.17	1	OAX8K	R. Atlantida, Peru	
	31.38	10/100		Allouis, France			31.17	3		Tripoli, Libya	
	31.38	50/200	KCBR	Delano, USA			31.17			Erevan, USSR	
	31.38	100		Amman, Jordan			31.17	15/100		BBC, London, Gt. Britain	
	31.38			Kiev, USSR			31.17			Kiev, USSR	
	31.38	50/100	KCBR	Delano, USA		9630	31.15	50	CKLO	R. Canada, Canada	
	31.38	120		R. Sofia, Bulgaria			31.15	10/100	VUD	AIR, Delhi, India	
	31.38	7.5/100		BBC, Singapore			31.15	50/60/100		R. Roma, Italy	
9562	31.37	40	OAX4R	R. Nacional Lima, Peru			31.15	50/100		Cairo, Un. Arab. Rep.	
9565	31.37	15	ZYK3	R. Jorn. do Comercio, Br.		9632	31.15	1	CR6RL	R. Clube de Angola, Angola	
	31.36	20/50		R. Liberty, Germany		9635	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.36	5		R. Sarawak, Sarawak			31.14	5	OCX4K	R. Metropolitana, Peru	
	31.36	10/100	VUD	AIR, Delhi, India			31.14	35.0		Thessaloniki (VOA), Greece	
9570	31.35	1	OAX7F	R. Nac. Puno, Peru			31.14	8/10		Munich (VOA), Germany	
	31.35	1	YVOM	San Cristobal, Venezuela			31.14	10/100	VUD	AIR, Delhi, India	
	31.35	10/50/100		R. Australia, Australia		9640	31.12	20/100	DMQ9	Deutsche Welle, Germany	
	31.35	10/100		Allouis, France			31.12	15/100		BBC, London, Gt. Britain	
	31.35	15/100		BBC, London, Gt. Britain			31.12	20		Accra, Ghana	
	31.35	100		Bucharest, Rumania			31.12	50	HLK5	Seoul, Korea	
	31.35	2.5		Lusaka, Rhodesia			31.12			Alma Ata, USSR	
	31.35	15/240		Peking, China			31.12	1	DZH2	Voice of the Philippines	
	31.35	0.25	DUH3	Philipp. Br., Philipp.			31.12	35/100		Tangier (VOA), Morocco	
9575	31.33	50/60/100		R. Roma, Italy			31.12	10	YVSC	R. Nacional, Venezuela	
	31.33	10/100	VUD	AIR, Delhi, India		9645	31.10	2	TIFC	Faro del Caribe, Costa Rica	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil			31.10	0.2/100	LLH	R. Norway, Norway	
9580	31.32	10/50/100		R. Australia, Australia			31.10	7.5	ZYV40	R. Cultura de Pocos, Brazil	
	31.32	15/100		BBC, London, Gt. Britain			31.10	10/50		Karachi, Pakistan	
	31.32	35/100		Poros (VOA), Philipp.			31.10	25/100		Vatican Radio	
9585	31.30	0.75	OBX4K	R. Selecta, Peru			31.10	1	OAX1T	R. Grau, Peru	
	31.30	10/100		Allouis, France		9650	31.09	50	WDSI	Brentwood, USA	
	31.30	50	CKLP	R. Canada, Canada			31.09	110	WLWO	Bethany, USA	
	31.30	7.5	ZYR56	R. Excelsior, Brazil			31.09	1	CE965	R. Yungay, Chile	
	31.30	100		R. Nacional, Spain			31.09	20		Paradys, So. Africa	
	31.30	120/240		Peking, China			31.09	7.5/20		BBC, Cyprus	
	31.30	50	YDF6	Djakarta, Indonesia			31.09	100		Honolulu (VOA), Hawaii	
	31.30	10/100	VUD	AIR, Delhi, India			31.09	120/240		Peking, China	
9586	31.29	0.25		Porto Amelia, Mozambique		9655	31.07	10/100		R. Free Europe, Germany	
9590	31.28	50/100		R. Nederland, Holland			31.07	5		Kaduna, Nigeria	
	31.28	1	OAX5C	R. Ica, Peru			31.07	5	JKH2	Tokyo, Japan	
	31.28	10/100	VUM	AIR, Madras, India		9656	31.06	7.5	CR7CC	R. Clube de Mozambique	
	31.28	120/240		Peking, China		9660	31.06	5	LRX	R. El Mundo, Argentina	
	31.28	7.5		Kampala, Uganda			31.06	20/50		R. Liberty, Germany	
9595	31.27	10/100		R. Free Europe, Germany			31.06	100		Tehran, Iran	
	31.27	10/50	JOZ3	Tokyo, Japan			31.06	10	VLQ9	Brisbane, Australia	
	31.27	10	ZYN29	R. Cultura da Bahia, Brazil			31.06	15/100		BBC, London, Gt. Britain	
	31.27	10	CXA72	R. Monte Carlo, Uruguay			31.06	25/100		Vatican Radio	
9600	31.25	15/100		BBC, London, Gt. Britain			31.06	1/75		Taipei, Taiwan	
	31.25	10	CE960	R. Pres. Balmaceda, Chile			31.06			Komsomolsk, USSR	
	31.25	50/200	KCBR	Delano, USA			31.06	120/240		Peking, China	
	31.25			Leningrad, USSR		9665	31.04	1	CR6RD	Nova Lisboa, Angola	
	31.25			Tashkent, USSR			31.04	120/240		Peking, China	
	31.25	120/240		Peking, China			31.04	20/50		R. Liberty, Germany	
	31.25	7.5		Omdurman, Sudan			31.04	100	HEU3	Schwarzenburg, Switzerland	
	31.25	1	XEYU	Universidad Nac., Mexico			31.04	1		Addis Ababa (LWF), Ethio.	
9605	31.23	10/100		R. Free Europe, Germany			31.04	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.23	100	DMQ9	Deutsche Welle, Germany			31.04	10		R. Nac. Brasilia, Brazil	
	31.23	10/100	VUD	AIR, Delhi, India		9667	31.04	1		R. Somali, Somali	
	31.23	10/100		R. Japan, Japan		9668	31.03	5	TGNB	R. Cultural, Guatemala	
	31.23	100		Hörby, Sweden		9670	31.02	1	COCQ	Circuito CMQ, Cuba	
	31.23	25		R. Congo, Congo			31.02	100		R. Abidjan, Ivory Coast	
	31.23	100		R. Nacional, Spain			31.02	10/100		R. Free Europe, Germany	
	31.23	1	CP22	R. Universidad, Bolivia		9670	31.20	10/100	VUD	AIR, Delhi, India	
	31.23	5/7.5		R. Athens, Greece			31.02	25		T. Tchad, Tchad	
9610	31.22	2/10	VLW/X9	Perth, Australia			31.02	50	WBOU	Bound Brook, USA	
	31.22	10		Addis Ababa, Ethiopia			31.02	15/120		Peking, China	
	31.22	1/50	OEI42	Wien, Austria		9675	31.01	10	ZYT29	R. Diario da Manha, Brazil	
	31.22	1	HRZN	R. Pinares, Honduras			31.01			R. Berlin Intern., GDR	
	31.22	10	ZYC8	R. Tupi, Brazil			31.01	20/50		R. Liberty, Germany	
	31.22	1	OAX8C	R. Nac. Iquitos, Peru			31.01	1	CR6RG	Sa da Bandeira, Angola	
	31.22	0.2/100	LLG	R. Norway, Norway			31.01	1/75		Taipei (BBC), Taiwan	
9612	31.21	1	CR6RI	R. Diamang, Angola			31.01	7.5/100		Warsaw, Poland	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
9675	31.01	0.25	OCX4W	R. Inca, Peru		9745	30.78	5		Biak, Neth. New Guinea	
	31.01	10/100		R. Japan, Japan			30.78	50/100		R. Nederland, Holland	
	31.01	15/100		BBC, London, Gt. Britain			30.78	20	TAP	R. Ankara, Turkey	
9677	31.00	100		R. Nacional, Spain			30.78	1/30	HCJB	Voz de los Andes, Ecuador	
	31.00			Kiev, USSR			30.78	7.5	ZYR57	R. Cultura, Brazil	
9680	30.99	5/10	VLR/H9	Melbourne, Australia			30.78	4		R. Mali, Mali	
	30.99	1	XEQQ	R. dif. XEQ, Mexico			30.77	10/100		R. Free Europe, Germany	
	30.99	35/100		Tangier (VOA), Morocco			30.77	15/100		BBC, London, Gt. Britain	
	30.99	10/100	VUD	AIR, Delhi, India			30.77			Khabarovsk, USSR	
9685	30.98	1	HOF31	Onda Popular, Panama			30.77	1	DZH3	R. Philippines	
	30.98	10	ZYR227	R. Gazeta, Brazil			30.77	10/100	VUD	AIR, Delhi, India	
	30.98	50		Algier 2, Algeria		9754	30.76	20		Saigon, Vietnam (Rep.)	
	30.98			Erevan, USSR		9755	30.76	10/100		Allouis, France	
9690	30.96	100	LRA32	R. Nacional, Argentina			30.76	7.5	ZYW23	R. Brasil Central, Brazil	
	30.96	10		R. Goa, Goa			30.75	15/100		BBC, London, Gt. Britain	
	30.96	15/100		BBC, London, Gt. Britain			30.76	120/240		Peking, China	
	30.96	7.5/100		BBC, Singapore			30.76	10/50		Karachi, Pakistan	
	30.96	0.25	DZH5	Manila, Philippines			30.76	35/50/100		Tangier (VOA), Morocco	
	30.96	120/240		Peking, China		9760	30.74	15/100		BBC, London, Gt. Britain	
	30.96			Frunze, USSR			30.74			R. Hanoi, Vietnam (Dem. R.)	
9695	30.94	10/100		R. Free Europe, Germany			30.74	0.3		Diyaabakir, Turkey	
	30.94	7.5	ZYB22	R. Rio Mar, Brazil			30.74	1		Addis Ababa (LWF), Ethio.	
	30.94	100		R. Nacional, Spain			30.74	50	WDSI	Wayne, USA	
	30.94	50/80	WRUL	Worldwide Br., N.Y., USA			30.74	10	TGWA	R. Nacional, Guatemala	
	30.94	1	OCX4Y	R. Continente, Peru			30.74	30	LRV	R. Belgrano, Argentina	
9696	30.94	4		Tananarive, Madagascar		9765	30.72	15/100		Peking, China	
9700	30.93	120		R. Sofia, Bulgaria			30.72	15/100		BBC, London, Gt. Britain	
	30.93	15/100		BBC, London, Gt. Britain			30.72	1	CR6RZ	R. Angola, Angola	
	30.93	50/200	KNBH	Dixon, USA			30.72	10/100	VUD	AIR, Delhi, India	
	30.93	10	CE970	R. Vitalicia, Chile		9770	30.71	15/100		BBC, London, Gt. Britain	
	30.93	50		R. Congolaise, Congo Rep.			30.71	1/50	OEI47	Wien, Austria	
9705	30.91	10/50		Karachi, Pakistan			30.71	7.5	PRL4	R. dif. Educativa, Brazil	
	30.91	50		R. Kabul, Afghanistan			30.71	110	WLWO	Bethany, USA	
	30.91	20/100	ORU	Bruxelles, Belgium			30.71	100		R. Budapest, Hungary	
	30.91	10	ZYZ24	R. Maua, Brazil			30.71	0.3		Iskenderun, Turkey	
	30.91	10/100	VUD	AIR, Delhi, India			30.71	0.4	4VEII	La Voix Evangelique, Haiti	
	30.91	10/100		R. Free Europe, Germany			30.70	7		R. Brazzaville, Congo	
	30.91	1	HRVS	La Voz de Suyapa, Hond. R.		9775	30.69	3.5	BEC62	Taipei, Taiwan	
9710	30.90	4		R. Niger, Niger			30.69	120/240		Peking, China	
	30.90	50	YDF6	Djakarta, Indonesia					9775-11700 kc/s		
	30.90	110	WLWO	Bethany, USA		9780	30.67			Kansu, China	
	30.90	15/100		BBC, London, Gt. Britain		9785	30.66	120/240		Peking, China	
	30.90	50/60/100		R. Roma, Italy		9790	30.64			Leningrad, USSR	
	30.90	35/100		Okinawa (VOA), Ryukyu Isl.			30.64			Lyov, USSR	
	30.90	1	OAX9D	R. Tropical, Peru		9795	30.63	50/100		Cairo, Un. Arab. Rep.	
9712	30.89	10/100		R. Free Europe, Germany		9800	30.61	120/240		Peking, China	
	30.89	10	LRX2	R. El Mundo, Argentina		9805	30.60	50/100		Cairo, Un. Arab. Rep.	
9715	30.88	50/100		R. Nederland, Holland		9825	30.53	15/100		BBC, London, Gt. Britain	
	30.88	0.5	CP21	R. La Plata, Bolivia		9833	30.51	100		Budapest, Hungary	
9717	30.87	15/120		Peking, China		9840	30.49			Baku, USSR	
9720	30.86	50	PRL7	R. Nacional, R.de Jan., Br.			30.49			Hanoi, Vietnam (Dem. R.)	
	30.86	1/75		Taipei (BCC), Taiwan		9860	30.43	15/240		Peking, China	
	30.86	0.2		Nhatrang, Vietnam (Rep.)		9865	30.40	50	YDF8	Djakarta, Indonesia	
	30.86	10/100	VUD	AIR, Delhi, India		9915	30.26	15/100		BBC, London, Gt. Britain	
	30.86	20		Paradys, So. Africa		9945	30.17	15/240		Peking, China	
	30.86	20/50		R. Liberty, Germany		9965	30.11	120/240		Peking, China	
9725	30.85	15/100		BBC, London, Gt. Britain		9990	30.02			Yunnan, China	
	30.85	7.5/100		BBC, Singapore		*10000	30.00	2	WWVH	Puunene, Hawaii	
	30.85	10/100		R. Free Europe, Germany		*10000	30.00	0.5	MSF	Teddington, Gt. Britain	
	30.85			Komsomolsk, USSR		*10000	30.00	9	WWV	Lanham, USA	
	30.85	100		Hörby, Sweden		*10000	30.00	2	L0L	Buenos Aires, Argentina	
	30.85	20	4XB51	Tel Aviv, Israel		*10000	30.00	0.25	ZUO	Johannesburg, So. Africa	
9730	30.83	12		Leipzig, Germany (DDR)		10150	29.66	0.5	HJN	La Voz de Colombia	
	30.83	7.5	ZYU59	R. Soc. Farrouplia, Brazil		10220	29.35	20	PSH	Agencia Nacional, Brazil	
	30.83	2	DZH7	Call of the Orient, Philipp.		10245	29.28			Sinkiang, China	
	30.83	20/50		R. Liberty, Germany		10260	29.24	15/120		Peking, China	
	30.83	7		R. Brazzaville, Congo		**10332	29.04		GPB30	Rugby, Gt. Britain	
	30.83	10/100	VUD	AIR, Delhi, India		10530	28.50			Alma Ata, USSR	
	30.83	50/100		R. Nederland, Holland		10910	27.49	25		Ulan Bator, Mongolia	
9735	30.82	15/100		BBC, London, Gt. Britain		11040	27.17			Inner Mongolia, China	
	30.82	7.5	HI2T	Voz Dominicana, Dom. R.		11290	26.57	15/120		Peking, China	
	30.82	100		R. Abidjan, Ivory Coast		11455	26.19	15/120		Peking, China	
	30.82	10		Gwelo, Rhodesia		11505	26.08	120/240		Peking, China	
	30.82	15/120		Peking, China		11630	25.79			Leningrad, USSR	
	30.82	20/100	DMQ9	Deutsche Welle, Germany			25.79	15/120		Peking, China	
	30.82	10	ZPA2	R. Nacional, Paraguay		11650	25.75	120/240		Peking, China	
9740	30.80	10/50		Karachi, Pakistan		11672	25.70	10/50		Karachi, Pakistan	
	30.80	100		Amman, Jordan		11675	25.70	15/240		Peking, China	
	30.80	110	WLWO	Bethany, USA		11680	25.68	15/100		BBC, London, Gt. Britain	
	30.80	15/100		BBC, London, Gt. Britain		11690	25.66			Tashkent, USSR	
	30.80	100	CSA27	R. Nacional, Portugal			25.66	15/120		Peking, China	
	30.80	1		Addis Ababa (LWF), Ethio.			25.66			Khabarovsk, USSR	
	30.80	50	CHFO	R. Canada, Canada				11700-11975 kc/s		- 25 metre band	
	30.80	35/50/100		Tangier (VOA), Morocco		11700	25.64	15/100		BBC, London, Gt. Britain	
	30.80		VUD	AIR, Delhi, India			25.64	1	TGQB	R. Nacional, Guatemala	
	30.80	20	LRS1	R. Splendid, Argentina			25.64			Kiev, USSR	
9745	30.78	100/20	ORU	Bruxelles, Belgium		11705	25.63	10/100		R. Japan, Japan	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
11705	25.63	100		Hörby, Sweden		11780	25.47	50/100		R. Nederland, Holland	
	25.63	15/100		BBC, London, Gt. Britain			25.47	15/100		BBC, London, Gt. Britain	
11710	25.62	10/50/100		R. Australia, Australia			25.47	10/100	VUD	AIR, Delhi, India	
	25.62	50	WBOU	Bound Brook, USA		11785	25.46			Kiev, USSR	
	25.62	7/50		R. Brazzaville, Congo			25.46	1/50	OEF52	Wien, Austria	
	25.62	10/100	VUD	AIR, Delhi, India			25.46	35/50/100		Tangier (VOA), Morocco	
11711	25.62	100	YDF2	Djakarta, Indonesia			25.46	7.5	ZYU61	R. Guaiaba, Brazil	
	25.62	50/100		R. Nederland, Holland			25.46	10/100	VUD	AIR, Delhi, India	
11715	25.61	50/200	KCBR	Delano, USA			25.46	100	YDF2	Djakarta, Indonesia	
	25.61	20/100	DMQ11	Deutsche Welle, Germany			25.46	7.5/50		Malolos (VOA), Philippines	
	25.61	100	HEI5	Schwarzenburg, Switzerland		11790	25.45	15/100		BBC, London, Gt. Britain	
	25.61	120/240		Peking, China			25.45	10/100	VUD	AIR, Delhi, India	
	25.61	10/100	VUD	AIR, Delhi, India			25.45	50/80	WRUL	Worldwide Br., N.Y., USA	
11720	25.60	5/7.5		Radio Athens, Greece		11795	25.43	20/100	DMQ11	Deutsche Welle, Germany	
	25.60	50	CHOL	R. Canada, Canada			25.43	20	YDF3	Djakarta, Indonesia	
	25.60	20/50		R. Liberty, Germany			25.43	50		R. Congolaise, Congo Rep.	
	25.60	7.5/20		BBC, Cyprus		11800	25.42	7.5/100		Warsaw, Poland	
	25.60	20/100	ORU	Wavre, Belgium			25.42	15/100		BBC, London, Gt. Britain	
11725	25.59	100		Praha, Czechoslovakia			25.42	10/100		R. Japan, Japan	
	25.59	1/75		Taipei (BCC), Taiwan			25.42	120/240		Peking, China	
	25.58	10/100		R. Free Europe, Germany			25.42	10/100	VUD	AIR, Delhi, India	
	25.58	10/100		R. Japan, Japan			25.42	50/100		R. Nederland, Holland	
	25.58	15/100		BBC, London, Gt. Britain		11805	25.41	35		Courier (VOA), Greece	
	25.58	1	YSY	R. Victoria, El Salvador			25.41	50/60/100		R. Roma, Italy	
	25.58	10		Dacca, Pakistan			25.41	100		Hörby, Sweden	
	25.58	50		R. Brazzaville, Congo			25.41	10/100		R. Free Europe, Germany	
	25.58	1	YVLK	R. Rumbos, Venezuela			25.41	10	ZYZ36	R. Globo, Brazil	
11730	25.58	15/100		BBC, London, Gt. Britain			25.41	10/100	VUD	AIR, Delhi, India	
	25.58	50/200	KCBR	Delano, USA			25.41	110	WLWO	Bethany, USA	
	25.58	120/240		Peking, China			25.41	100		Accra, Ghana	
	25.58	10		Dacca, Pakistan			25.40	10	OIX8	Pori, Finland	
	25.58	100	LRA35	R. Nacional, Argentina		11810	25.40	10/50/100		R. Australia, Australia	
	25.58	50/100		R. Nederland, Holland			25.40	10/100	VUD	AIR, Delhi, India	
	25.58			Petropavlovsk, USSR			25.40	50/60/100		R. Roma, Italy	
	25.58	10/100	VUD	AIR, Delhi, India			25.40	100		Bucharest, Rumania	
	25.58	35		Thessaloniki (VOA), Greece			25.40	7.5		Amman, Jordan	
11735	25.56	10/100	LKQ	R. Norway, Norway		11815	25.39	10/100		R. Free Europe, Germany	
	25.56	1/75		Taipei (BCC), Taiwan			25.39	10/100		R. Japan, Japan	
	25.56	10/100		R. Belgrad, Yugoslavia			25.39	100		R. Nacional, Spain	
	25.56	5	CXA7	R. Oriental, Uruguay			25.39	7.5	ZYW24	R. Brasil Central, Brazil	
	25.56	10/100		R. Free Europe, Germany			25.39	7.5/100		Warsaw, Poland	
	25.56	7.5	ZYW28	R. Clube de Goiania, Brazil			25.39	20		Paradys, So. Africa	
	25.56	50		R. Maroc, Morocco		11820	25.38	15/100		BBC, London, Gt. Britain	
11740	25.55	10/50/100		R. Australia, Australia			25.38	100		R. Abidjan, Ivory Coast	
	25.55	5	CE1174	R. Nuevo Mundo, Chile			25.38	120/240		Peking, China	
	25.55	25/100		Vatican Radio			25.38	0.15	XEBR	El Heraldo de Sonora, Mex.	
	25.55	120/240		Peking, China			25.38			Kiev, USSR	
	25.55	7.5/100		Warsaw, Poland			25.38			Magadan, USSR	
	25.55			Kiev, USSR		11825	25.37	20/50		R. Liberty, Germany	
	25.55	10/100	VUD	AIR, Delhi, India			25.37	35/100		Tangier (VOA), Morocco	
11745	25.54	10/100		R. Free Europe, Germany			25.37	1/75		Taipei (BCC), Taiwan	
	25.54	4	CR6RB	R. Ecclesia, Angola			25.37	4		Papeete, Tahiti	
	25.54	50/100		Cairo, Un. Arab. Rep.			25.37	100	YDF2	Djakarta, Indonesia	
	25.54	100		Praha, Czechoslovakia		11830	25.36	50/200	KCBR	Delano, USA	
11750	25.53	15/100		BBC, London, Gt. Britain			25.36	50	WGEO	Schenectady, USA	
	25.53	7.5/100		BBC, Singapore, Malaya			25.36	10/100	VUD	AIR, Delhi, India	
	25.53	10		Tokyo (FEN), Japan			25.36	10/100		R. Free Europe, Germany	
	25.53	20		Omdurman, Sudan			25.36	8/100		Munich (VOA), Germany	
	25.53	120/240		Peking, China			25.36	50	WBOU	Bound Brook, USA	
	25.53	20		Damascus, Syria		11835	25.35	5	CXA19	El Espectador, Uruguay	
11755	25.52	10/100		R. Free Europe, Germany			25.35	35		Colombo (VOA), Ceylon	
	25.52	50/100		R. Nederland, Holland			25.35	50		Algier I, Algeria	
	25.52			Komsomolsk, USSR		11840	25.34	100	CSA31	R. Nacional, Portugal	
	25.52			Petropavlovsk, USSR			25.34	10/50/100		R. Australia, Australia	
	25.52	50		R. Congolaise, Congo Rep.			25.34	15/100		BBC, London, Gt. Britain	
11760	25.51	10/50/100		R. Australia, Australia			25.34	35		Thessaloniki (VOA), Greece	
	25.51	35		Thessaloniki (VOA), Greece			25.34			Khabarovsk, USSR	
	25.51	20/50		R. Liberty, Germany			25.34			Hanoi, Vietnam (Dem. R.)	
	25.51	50	CKRA	R. Canada, Canada			25.34	10	DUH5	Philipp. Br., Philipp.	
	25.51	10/100	VUD	AIR, Delhi, India			25.33	50		Saigon, Vietnam (Rep.)	
	25.51	7.5		R. Clube de Mozambique		11843	25.33	10/100		Allouis, France	
	25.51	100		R. Habana, Cuba			25.33	50	WDSI	Brentwood, USA	
11765	25.50	25	ZYB8	R. Dif. de Sao Paulo, Brazil			25.33	10/50		ELWA, Liberia	
	25.50	10	CP39	La Cruz del Sur, Bolivia			25.33	10/50		Karachi, Pakistan	
	25.50			Nauen, Germany (DDR)		11850	25.32	10/100	VUD	AIR, Delhi, India	
11770	25.49	15/100		BBC, London, Gt. Britain			25.32	1.5	ZPA3	R. Teleco, Paraguay	
	25.49	7.5	YDE	Djakarta, Indonesia			25.32	20/100	ORU	Wavre, Belgium	
	25.49	100	YDF2	Djakarta, Indonesia			25.32	10/100	LLK	R. Norway, Norway	
	25.49	20/100	VUD	AIR, Delhi, India			25.32			Komsomolsk, USSR	
	25.49	100		R. Habana, Cuba			25.32			Petropavlovsk, USSR	
	25.49	35		Colombo, Ceylon			25.32	120		R. Sofia, Bulgaria	
11775	25.48	10	ZYZ28	R. Mayrink Veiga, Brazil		11855	25.31	10/100		R. Free Europe, Germany	
	25.48	10/100		R. Free Europe, Germany			25.31	50/80	WRUL	Worldwide Br., N.Y., USA	
	25.48	8/100		Munich (VOA), Germany			25.31	2	DZH8	Call of the Orient, Philipp.	
11780	25.47	10/100		R. Japan, Japan		11860	25.30	15/160		BBC, London, Gt. Britain	
	25.47	7	TFJ	Reykjavik, Iceland			25.30	15/240		Peking, China	
	25.47	7.5	ZL3	Wellington, New Zealand			25.30			Kiev, USSR	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
11860	25.30	100		R. Nacional, Spain		11950	25.10	50	HLK55	Seoul, Korea	
11865	25.28	100	HER5	Schwarzenburg, Switzerland			25.10	7.5	PRL3	R. Dif. Educativa, Brazil	
	25.28	7.5	PRA8	R. Cl. de Pernambuco, Br.		11955	25.09	15/100		BBC, London, Gt. Britain	
	25.28	10		Dacca, Pakistan			25.09	7.5/100		BBC, Singapore	
11870	25.27	8/100		Munich (VOA), Germany			25.09	3		Benghazi, Libya	
11875	25.26	35/100		Tangier (VOA), Morocco			25.09	50	WBOU	Bound Brook, USA	
	25.26	100	CSA58	R. Nacional, Portugal			25.09	0.25		Grenada, Windward Islands	
	25.26	10		R. Atlantico, Portugal			25.09	7.5/100		Warsaw, Poland	
	25.26	100		R. Habana, Cuba			25.09	120/240		Peking, China	
	25.26	50/200	KNBH	Dixon, USA			25.09	10/100	VUD	AIR, Delhi, India	
	25.26	10/100		R. Japan, Japan			25.09	20		R. Addis Ababa, Ethiopia	
	25.26	10	ZYN32	R. Soc. da Bahia, Brazil		11960	25.08	35/100		Okinawa (VOA), Ryukyu Isl	
	25.26	35		Colombo (VOA), Ceylon			25.08	2.5	CE1196	Soc. Nac. de Minería, Chile	
11880	25.25	10	LRS	R. Splendid, Argentina		11965	25.07	7.5	PRB24	R. Record, Brazil	
	25.25	10	VLH11	Melbourne, Australia			25.07	120/240		Peking, China	
	25.25	20/50		R. Liberty, Germany			25.07	20/50		R. Liberty, Germany	
	25.25	1		Addis Ababa (LWF), Ethio.			25.07	15/100		BBC, London, Gt. Britain	
	25.25	15/100		BBC, London, Gt. Britain		11970	25.06	7		R. Brazzaville, Congo	
	25.25	5	XEHH	R. Dif. Comerciales, Mex.			25.06	15/100		BBC, London, Gt. Britain	
	25.25	100		Hörby, Sweden			25.06	100		Amman, Jordan	
11885	25.24	10/100		R. Free Europe, Germany			25.06	1	YVLK	R. Rumbos, Venezuela	
	25.24	10/100		Allouis, France			25.06	50		R. Tunis, Tunisia	
	25.24			Leningrad, USSR		11975	25.05	120/240		Peking, China	
	25.24	10/50		Karachi, Pakistan		11980	25.04	120/240		Peking, China	
	25.24	120/240		Peking, China		11985	25.03	1	CR6RD	Nova Lisboa, Angola	
	25.23	15/100		BBC, London, Gt. Britain					11995-15100	kc/s	
	25.23			Kiev, USSR		11990	25.02	100		Praha, Czechoslovakia	
	25.23	10/50/100		R. Australia, Australia		12000	25.00	5	CE1200	R. Soc. Nac. de Agric., Ch.	
	25.23	110	WLWO	Bethany, USA		12008	24.98	12		Leipzig, Germany (DDR)	
11890	25.23	8/100		Munich (VOA), Germany		12010	24.98	120/240		Peking, China	
	25.23	10		Dacca, Pakistan		12020	24.96	10/100	VUD	AIR, Delhi, India	
	25.23	10/100	VUD	AIR, Delhi, India		12040	24.92	15/100		BBC, London, Gt. Britain	
11895	25.22	10/100	VUD	AIR, Delhi, India		12050	24.90	50/100		Cairo, Un. Arab. Rep.	
	25.22	100		Senegal, Dakar		12055	24.89			Hanoi, Vietnam (Dem. Rep.)	
	25.22	10/100		R. Free Europe, Germany		12080	24.82	100		R. Nacional, Portugal	
	25.22	100		R. Budapest, Hungary			24.89	120/240		Peking, China	
	25.22	35/100		Poro (VOA), Philippines		12095	24.80	15/100		BBC, London, Gt. Britain	
11900	25.21	50/200	KCBR	Delano, USA		*14670	20.45	3	CHU	Dom. Observatory, Canada	
	25.21	20		Paradys, So. Africa		14690	20.45	20	PSF	Agencia Nac., Brazil	
	25.21	20	CXA10	S.O.D.R.E. Uruguay		*15000	20.00	2	WWVH	Puunene, Hawaii	
	25.21			Komsomolsk, USSR		*	20.00	9	WWV	Lanham, USA	
	25.21			Petropavlovsk, USSR		*	20.00	1	JJY	Tokyo, Japan	
	25.21	50	WDSI	Wayne, USA		*	20.00	2	LOL	Buenos Aires, Argentina	
	25.21	5	CE1190	R. Coop. Vitalicia, Chile		15030	19.96	15/240		Peking, China	
11905	25.20	50/60/100		R. Roma, Italy		15050	19.93			Petropavlovsk, USSR	
	25.20	20/100	DMQ11	Deutsche Welle, Germany			19.93	20	HI4U	R. Caribe, Dom. Rep.	
11910	25.19	15/100		BBC, London, Gt. Britain		15060	19.92	120/240		Peking, China	
	25.19	100		Budapest, Hungary		15070	19.91	15/100		BBC, London, Gt. Britain	
	25.19	0.5/50	HSK7/9	R. Thailand, Thailand		15080	19.89	120/240		Peking, China	
	25.19	15/240		Peking, China		15085	19.89	20		Paradys, So. Africa	
	25.19	10/50		Karachi, Pakistan			19.89	5		Grenada, Windward Islands	
11915	25.18	50/100		R. Nederland, Holland		15095	19.87	120/240		Peking, China	
	25.18	30	HCJB	Voz de los Andes, Ecuador		15100	19.87	100	CSA39	R. Nacional, Portugal	
	25.18	10/100		R. Free Europe, Germany					15100-15450	kc/s (19 m.b.)	
	25.18	7.5	PRC20	R. Soc. Gaucha, Brazil		15105	19.86	1/75		Taipei (BBC), Taiwan	
	25.18	50/100		Cairo, Un. Arab. Rep.			19.86	10/100	VUD	AIR, Delhi, India	
	25.18	100	CSA30	R. Nacional, Portugal			19.86	7.5	ZYZ32	R. Rural Brasileira, Brazil	
11920	25.17	10/100		Allouis, France			19.86	100		R. Tehran, Iran	
	25.17	1/75		Taipei (BBC), Taiwan		15110	19.85	15/100		BBC, London, Gt. Britain	
	25.17	110	WLWO	Bethany, USA			19.85			Petropavlovsk, USSR	
	25.17	15/100		BBC, London, Gt. Britain		15115	19.85	1/30	HCJB	Voz de los Andes, Ecuador	
	25.17	50	DZF2	Call of the Orient, Philipp.			19.85	100		Dakar, Senegal	
	25.17	10/100	VUD	AIR, Delhi, India			19.85	10/100		R. Free Europe, Germany	
	25.17	10/50		Karachi, Pakistan			19.85	120/240		Peking, China	
11925	25.19	10	ZYR78	R. Bandeirantes, Brazil		15120	19.84	50/60/100		R. Roma, Italy	
	25.16	20/100	DMQ11	Deutsche Welle, Germany			19.84	25/100		Vatican Radio	
11925	25.16	50	HLK6	Seoul, Korea			19.84	35		Colombo, Ceylon	
	25.16	15/120		Peking, China			19.84	7.5/100		Warsaw, Poland	
	25.16	10/100	VUD	AIR, Delhi, India			19.84	10/100	VUD	AIR, Delhi, India	
11930	25.15	15/100		BBC, London, Gt. Britain		15125	19.83	100	CSA64	R. Nacional, Portugal	
	25.15	50	WDSI	Brentwood, USA			19.83	50	HLK41	Seoul, Korea	
	25.15	10/100		R. Free Europe, Germany			19.83	35/100		Poro (VOA), Philipp.	
11935	25.14	7.5	ZYS35	R. Cl. Paranaense, Brazil		15130	19.83	10/100	VUD	AIR, Delhi, India	
	25.14	15/120		Peking, China			19.83	15/100		BBC, London, Gt. Britain	
	25.14	20/50		R. Liberty, Germany			19.83	50/200	KCBR	Delano, USA	
	25.14	50/100		R. Nederland, Holland			19.83	10/100		Allouis, France	
11940	25.13	100		Bucharest, Rumania			19.83	35/100		Poro (VOA), Philipp.	
	25.13	10/100		R. Free Europe, Germany		15135	19.82	10/100		R. Japan, Japan	
	25.13	8/100		Munich (VOA), Germany			19.82	7.5	PRB23	R. Panamericana, Brazil	
	25.13	25/100		Vatican Radio			19.82	10/100		R. Free Europe, Germany	
	25.12	3	ZPA5	R. Encarnacion, Paraguay		15140	19.82	15/100		BBC, London, Gt. Britain	
	25.13	10/100	VUD	AIR, Delhi, India			19.82			Petropavlovsk, USSR	
11945	25.12	15/100		BBC, London, Gt. Britain			19.82	120/240		Peking, China	
	25.12	20/100	DMQ11	Deutsche Welle, Germany			19.82	10/100	VUD	AIR, Delhi, India	
	25.12	120/240		Peking, China		15145	19.81	10/100		R. Free Europe, Germany	
11950	25.10	50/100		R. Nederland, Holland			19.81	15	ZYK33	R. Jornal do Comercio, Br.	
	25.10	10		Jeddah, Saudi Arabia			19.81	10/50		Karachi, Pakistan	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
15150	19.80	50	CE1515	R. Corporacion, Chile		15250	19.67	100		R. Bucharest, Rumania	
	19.80	120/240		Peking, China		15252	19.67			Petropavlovsk, USSR	
	19.80	10/100	VUD	AIR, Delhi, India		15255	19.66	10/100		R. Free Europe, Germany	
	19.80	50/200	KCBR	Delano, USA			19.66	1/10		Tokyo, Japan (FEN)	
	19.80	7.5/100	YDC	Djakarta, Indonesia		15260	19.66	15/100		BBC, London, Gt. Britain	
	19.80	40	OAX4T	R. Nacional, Lima, Peru			19.66	120/240		Peking, China	
	19.80	50	ELWA	ELWA, Liberia		15265	19.66	10/100		R. Free Europe, Germany	
	19.80	110	WLWO	Bethany, USA			19.65	35		Colombo, Ceylon	
	19.80	25	ZYB9	R.Dif. de Sao Paulo, Braz.		15270	19.65	50	WDSI	Brentwood, USA	
	19.80	10/50		Karachi, Pakistan			19.65	120/240		Peking, China	
	19.80	7.5/50		Malolos (VOA), Philipp.			19.65	10		Dacca, Pakistan	
15152	19.80	5/10	CR7BG	R.Cl. de Mozambique, Moz.			19.65	10/100	VUD	AIR, Delhi, India	
15160	19.79	10/100	VUD	AIR, Delhi, India		15275	19.64	20/100	DMQ15	Deutsche Welle, Germany	
	19.79	100		R. Budapest, Hungary			19.64	7.5/100		Warsaw, Poland	
	19.79	10/100		Allouis, France			19.64	10/50		Karachi, Pakistan	
15165	19.78	50	OZF7	Herstedvester, Denmark		15280	19.63	7.5	ZL4	Wellington, New Zealand	
	19.78	20		Damascus, Syria		15285	19.63	20/100	DMQ15	Deutsche Welle, Germany	
	19.78	5	ZYN7	Ceara R. Clube, Brazil			19.63	100		Praha, Czechoslovakia	
15170	19.78	10/100	LKV	R. Norway, Norway		15290	19.62	100		Accra, Ghana	
	19.78	10/100	VUD	AIR, Delhi, India			19.62	5/10	LRU	R. El Mundo, Argentina	
	19.78	8/100		Munich (VOA), Germany			19.62	10/100	VUD	AIR, Delhi, India	
	19.78	100		Amman, Jordan			19.62	15/240		Peking, China	
	19.78	10/100		R. Free Europe, Germany			19.62	50	WDSI	Wayne, USA	
	19.78	0.5	OBX4C	R. El Sol, Peru			19.62	35/100		Tangier (VOA), Morocco	
15175	19.77	10/100	LLM	R. Norway, Norway			19.62	110	WLWO	Bethany, USA	
	19.77	1	BEH22	Taipei, Taiwan		15295	19.62	10	PRL8	R. Nac. Rio de Janeiro, Br.	
	19.77	15/120		Peking, China			19.62	10/100		R. Free Europe, Germany	
15180	19.76	15/100		BBC, London, Gt. Britain			19.62	20/100	DMQ15	Deutsche Welle, Germany	
	19.76	10/50/100		R. Australia, Australia		15300	19.61	15/100		BBC, London, Gt. Britain	
	19.76	50/80	WRUL	Worldwide Br., N.Y., USA			19.61	100		R. Habana, Cuba	
15185	19.76	10/100		R. Free Europe, Germany			19.61	15/120		Peking, China	
	19.76	35/100		Poro (VOA), Philipp.			19.60	2	DZH9	Call of the Orient, Philipp.	
15190	19.75	50		R. Brazzaville, Congo		15305	19.60	20/50		R. Liberty, Germany	
	19.76	100	OIX4	Pori, Finland			19.60	10		Dacca, Pakistan	
	19.75	120/240		Peking, China		15310	19.60	15/100		BBC, London, Gt. Britain	
	19.75	10/100	VUD	AIR, Delhi, India			19.60	1/50	OEI64	Wien, Austria	
	19.75	5	PRK9	R. Inconfidencia, Br.			19.60	10/100	VUD	AIR, Delhi, India	
15192	19.75	10/50		Karachi, Pakistan			19.60	7.5/100		BBC, Singapore	
15195	19.74	10/100		R. Japan, Japan			19.60	50	WBOU	Bound Brook, USA	
	19.74	10/100		R. Free Europe, Germany		15313	19.59	15/120		Peking, China	
	19.74			Petropavlovsk, USSR		15315	19.59	100	HEU6	Schwarzenburg, Switzerland	
	19.74			Komsomolsk, USSR			19.59	1		Addis Ababa (LWF), Ethiop.	
15205	19.73	5	XESC	R.diff. XEMC, Mexico			19.59	10/50/100		R. Australia, Australia	
	19.73	10/50		Karachi, Pakistan		15320	19.58	50	CKCS	R. Canada, Canada	
	19.73	50	WDSI	Wayne, USA			19.58			Kaunas, USSR	
	19.73	110	WLWO	Bethany, USA		15325	19.58	10	ZYR228	R. Gazeta, Brazil	
	19.73	35/50/100		Tangier (VOA), Morocco			19.58	50/60/100		R. Roma, Italy	
	19.73			Kiev, USSR		15330	19.57	120		R. Sofia, Bulgaria	
15210	19.72	10/50/100		R. Australia, Australia			19.57	50/200	KCBR	Delano, USA	
	19.72	50/200	KCBR	Delano, USA			19.57	50	WBOU	Bound Brook, USA	
	19.72	15/100		BBC, London, Gt. Britain			19.57	25/100	WGE0	Schenectady, USA	
	19.72	7.5/50		Malolos (VOA), Philipp.			19.57	10/50/100		R. Australia, Australia	
	19.72	10		Accra, Ghana			19.57	120		R. Sofia, Bulgaria	
	19.72	120/240		Peking, China			19.57	35/100		Tangier (VOA), Morocco	
15215	19.71	10/100		R. Free Europe, Germany			19.57	8/100		Munich (VOA), Germany	
	19.72			Komsomolsk, USSR		15335	19.56	10/50		Karachi, Pakistan	
	19.72	35/100		Okinawa (VOA), Ryukyu Isl.			19.56	7.5	ZYU68	R. Soc. Farroupilha, Br.	
15220	19.71	10/50/100		R. Australia, Australia			19.56	100/20	ORU	Wavre, Belgium	
	19.71	120/240		Peking, China			19.56			Komsomolsk, USSR	
	19.71	50/100		R. Nederland, Holland		15335	19.56	10		Dacca, Pakistan	
15225	19.70	1/75		Taipei (BCC), Taiwan			19.56	35/100		Poro (VOA), Philipp.	
	19.70	50		R. Kabul, Afghanistan		15340	19.56	1		R. Habana, Cuba	
	19.70	10/100	VUD	AIR, Delhi, India			19.56	1		Addis Ababa (LWF), Ethiop.	
	19.70	50		R. St. KGEI, USA			19.56	20/5		R. Liberty, Germany	
15230	19.70	10	VLH15	Melbourne, Australia			19.56	50/200	KCBR	Delano, USA	
	19.70	15/100		BBC, London, Gt. Britain		15345	19.55	5/7.5		R. Athens, Greece	
	19.70	35		Colombo (VOA), Ceylon			19.55	1/75		Taipei (BCC), Taiwan	
	19.70			Khabarovsk, USSR			19.55	100	LRA33	R. Nacional, Argentina	
15235	19.69	10/000	VUD	AIR, Delhi, India			19.55	50		Sebaa-Aioun, Morocco	
	19.69	10/100		R. Japan, Japan			19.55	20		R. Addis Ababa, Ethiopia	
	19.69			Komsomolsk, USSR			19.55	1		Addis Ababa (LWF), Eth.	
	19.69	1/75		Taipei (BCC), Taiwan			19.55	100		Amman, Jordan	
	19.69	120/240		Peking, China			19.55	120/240		Peking, China	
	19.69	35/100		Tangier (VOA), Morocco		15350	19.54	5		R. Luxembourg, Luxemb.	
15240	19.69	10/100		R. Belgrade, Yugoslavia		15355	19.53	10/100		R. Free Europe, Germany	
	19.69	100		Hörby, Sweden			19.53	110	WLWO	Bethany, USA	
	19.69	10/50/100		R. Australia, Australia		15360	19.53	10/100		R. Free Europe, Germany	
	19.69	15/120		Peking, China			19.53	35/100		Poro (VOA), Philipp.	
15245	19.68	10/100	VUD	AIR, Delhi, India			19.53	15/100		BBC, London, Gt. Britain	
	19.68	10/100		Petropavlovsk, USSR		15365	19.52	50/100		R. Nederland, Holland	
	19.68	10	ZYE21	AIR, Delhi, India			19.52	10/100		R. Free Europe, Germany	
	19.68	10/100		R. Marajoara, Brazil			19.52	5/10	CR7BG	R.Cl. de Mozambique, Moz.	
	19.68	10/100		Allouis, France			19.52	100		R. Budapest, Hungary	
15250	19.67	110	WLWO	Bethany, USA			19.52	35/100		Tangier (VOA), Morocco	
	19.67	7.5/50		Malolos (VOA), Philipp.			19.52	10/100	VUD	AIR, Delhi, India	
	19.67	120/240		Peking, China		15370	19.52	10	ZYC9	R. Tupi, Brazil	
	19.67	10/100	VUD	AIR, Delhi, India			19.52	20/50		R. Liberty, Germany	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
15370	19.52	10/100	VUD	AIR, Delhi, India		17730	16.92	20/50		R. Liberty, Germany	
15375	19.51	15/100		BBC, London, Gt. Britain			16.92	120/240		Peking, China	
15380	19.50	100	CSA42	R. Nacional, Portugal		17735	16.92	50/200	HCBR	Delano, USA	
	19.51	50/80	WRUL	Worldwide Br., N.Y., USA			16.92	10/100	VUD	AIR, Delhi, India	
	19.51	100		R. Bucharest, Rumania			16.92	10/100		R. Free Europe, Germany	
15385	19.50	10	CXA60	R. Sarandi, Uruguay		17740	16.91	15/100		BBC, London, Gt. Britain	
	19.50	50		R. Goa, Goa			16.91	100		Accra, Ghana	
	19.50	50	DZF3	Call of the Orient, Philipp.			16.91	50/60/100		R. Roma, Italy	
	19.50	50/80	WRUL	Worldwide Br., N.Y., USA			16.91	1		Addis Ababa (LWF), Ethiop.	
	19.50	35/100		Tangier (VOA), Morocco			16.91	10/100	VUD	AIR, Delhi, India	
15390	19.49	10/100		R. Japan, Japan		17745	16.91	15/100		BBC, London, Gt. Britain	
	19.49	15/100		BBC, London, Gt. Britain			16.91	5/7.5		R. Athens, Greece	
	19.49	50/80	WRUL	Worldwide Br., N.Y., USA			16.91	120/240		Peking, China	
	19.49	0.25		Grenada, Windw. Isl.			16.91			Komsomolsk, USSR	
15395	19.49	20/50		R. Liberty, Germany			16.91	10/50		Karachi, Pakistan	
15400	19.48	10/100	VUD	AIR, Delhi, India			16.91	7.5/50		Malolos (VOA), Philipp.	
	19.48	35/100		Poro (VOA), Philipp.		17750	16.90	10/50		Karachi, Pakistan	
	19.48	15/100		BBC, London, Gt. Britain			16.90	20/50		R. Liberty, Germany	
	19.48	50/60/100		R. Roma, Italy			16.90	50/80	WRUL	Worldwide Br. N.Y., USA	
15405	19.47	20/100	DMQ15	Deutsche Welle, Germany			16.90	35/50/100		Tangier (VOA), Morocco	
	19.47	10/100		R. Free Europe, Germany		17755	16.90	7.5/100		BBC, Singapore	
15410	19.47	50		R. Goa, Goa			16.90	100		Praha, Czechoslovakia	
	19.47	50	WBOU	Bound Brook, USA			16.90	10/100	LKW	R. Norway, Norway	
	19.47	20/50		R. Liberty, Germany			16.90	10/100		R. Japan, Japan	
15415	19.46	35		Colombo (VOA), Ceylon			16.90	15/100		BBC, London, Gt. Britain	
	19.46	1		Addis Ababa (LWF), Ethio.		17760	16.89	10/100	VUD	AIR, Delhi, India	
	19.46	100		Budapest, Hungary			16.89			Lvov, USSR	
	19.46	1	ZYR206	R. Cl. de Ribeirao, Preto, Br.		17765	16.89	120/240		Peking, China	
15417	19.46	120/240		Peking, China			16.89	10/100		Allouis, France	
15420	19.46	10/100		R. Free Europe, Germany		17770	16.88	50/60/100		R. Roma, Italy	
	19.46	100		R. Nacional, Spain			16.88	50/200	KCBR	Delano, USA	
	19.46	15/100		BBC, London, Gt. Britain			16.88	10/100		R. Free Europe, Germany	
	19.46	100		Hörby, Sweden		17775	16.88	50/100		R. Nederland, Holland	
15422	19.46			Novosibirsk, USSR			16.88	20		R. Addis Ababa, Ethiopia	
15425	19.45	50/100		R. Nederland, Holland			16.88			Ulan Ude, USSR	
	19.45	10	VLX15	Perth, Australia			16.88	35/100		Poro (VOA), Philipp.	
			15427-17700 kc/s			17780	16.87	15/120		Peking, China	
15430	19.44	120/240		Peking, China			16.87	10/100	VUD	AIR, Delhi, India	
	19.44			Eriwan, USSR			16.87	50	WBOU	Bound Brook, USA	
	19.44			Kazan, USSR		17785	16.87	100	HER7	Schwarzenburg, Switzerland	
15435	19.44	15/100		BBC, London, Gt. Britain			16.87			Frunze, USSR	
	19.44	20/100	ORU	Wavre, Belgium			16.87	1/75		Taipei (BCC), Taiwan	
	19.44	7.5/100		BBC, Singapore		17790	16.86	15/100		BBC, London, Gt. Britain	
15445	19.43	50/100		R. Nederland, Holland		17795	16.86		VUD	AIR, Delhi, India	
	19.43	50		R. Brazzaville, Congo			16.86	100	HE18	Schwarzenburg, Switzerland	
	19.43	15/120		Peking, China			16.86	10/100		Tbilisi, USSR	
	19.43	10		R. Nac. Brasilia, Brazil			16.86	100	WLWO	Bethany, USA	
15447	19.42	15/100		BBC, London, Gt. Britain			16.86	10/100		R. Japan, Japan	
15448	19.42	100		Praha, Czechoslovakia			16.86	10	CR6RZ	R. Angola, Angola	
15457	19.41			Komsomolsk, USSR		17800	16.85	110	WLWO	Bethany, USA	
15465	19.40	0.35		Paramaribo, Surinam			16.85	10/100	VUD	AIR, Delhi, India	
15475	19.38	50/100		R. Cairo, Un. Arab. Rep.			16.85	50/100		R. Nederland, Holland	
15480	19.38	15/120		Peking, China			16.85	120		R. Sofia, Bulgaria	
15500	19.35	120/240		Peking, China			16.85	50/60/100		R. Roma, Italy	
15550	19.29	15/120		Peking, China			16.85	7.5/100		Warsaw, Poland	
	19.29	10		Dacca, Pakistan			16.85	35		Colombo (VOA), Ceylon	
15590	19.24	15/120		Peking, China			16.85	10	DZ16	Call of the Orient, Philipp.	
15610	19.22	15/120		Peking, China		17805	16.85	10/100		R. Free Europe, Germany	
15710	19.10	15/120		Peking, China			16.84	15/100		BBC, London, Gt. Britain	
15880	18.89	15/120		Peking, China			16.84	50/100		R. Nederland, Holland	
17450	17.20	15/120		Peking, China			16.84	120/240		Peking, China	
17533	17.11	15/120		Peking, China		17815	16.84	20/100	DMQ17	Deutsche Welle, Germany	
17605	17.04	15/120		Peking, China			16.84	10		R. Cultura, Brazil	
17635	17.01	15/120		Peking, China			16.84	50	HLK46	Seoul, Korea	
17640	17.00	10		Dacca, Pakistan			16.84			Simferopol, USSR	
17680	16.97	120/240		Peking, China			16.84	10/100	VUD	AIR, Delhi, India	
**17685	16.96		GIC37	Rugby, Gt. Britain		17820	16.84	50	CKNC	R. Canada, Canada	
17690	16.96	50/100		Cairo, Un. Arab. Rep.			16.84	50/200	KCBR	Delano, USA	
17695	16.95	15/100		BBC, London, Gt. Britain			16.84	10/100	VUD	AIR, Delhi, India	
17700	16.95	15/100		BBC, London, Gt. Britain			16.84	35		Colombo, Ceylon	
			17700-17900 kc/s - 16 metre band				16.84	100	TAV	R. Ankara, Turkey	
17705	16.94	10/100	VUD	AIR, Delhi, India			16.84	7.5	ZL14	Wellington, New Zealand	
	16.94	35/50/100		Tangier (VOA), Morocco		17825	16.83	10/100	LLN	R. Norway, Norway	
17710	16.94	110	WLWO	Bethany, USA			16.83			Kursk, USSR	
17715	16.93	15/100		BBC, London, Gt. Britain		17830	16.83	10/100	VUD	AIR, Delhi, India	
	16.93	10/50/100		R. Australia, Australia			16.83	25	WGEO	Schenectady, USA	
17720	16.93	10/100	VUD	AIR, Delhi, India		17835	16.82	100	CSA209	R. Nacional, Portugal	
	16.93	100	HEU7	Schwarzenburg, Switzerland			16.82	50/100		Cairo, Un. Arab. Rep.	
	16.93	100		R. Budapest, Hungary			16.82	35/50/100		Tangier (VOA), Morocco	
	16.93	120/240		Peking, China			16.82	120/240		Peking, China	
	16.93	20/50		R. Liberty, Germany			16.82	10/100		R. Free Europe, Germany	
	16.93	50		R. Brazzaville, Congo		17840	16.82	10/50/100		R. Australia, Australia	
17725	16.93	10/100		R. Free Europe, Germany			16.82	15/100		BBC, London, Gt. Britain	
	16.93	10/100	VUD	AIR, Delhi, India			16.82	100		Hörby, Sweden	
	16.93	1	ZYR232	R. Universitaria, Brasil			16.82	25/100		Vatican Radio	
17730	16.92	15/100		BBC, London, Gt. Britain			16.82	50/100		R. Nederland, Holland	
	16.92	10/100	VUD	AIR, Delhi, India		17845	16.81	20/100	DMQ17	Deutsche Welle, Germany	

kc/s	m	kW	Call	Stations and countries	Rem.	kc/s	m	kW	Call	Stations and countries	Rem.
16.81	100			Hörby, Sweden		13.89	10/50/100			R. Australia, Australia	
16.81	20/100	ORU		Wavre, Belgium		13.89				Yuzhno, Sakhalinsk, USSR	
16.81	20/50			R. Liberty, Germany		13.89				Komsomolsk, USSR	
16.81	50			R. Tunis, Tunisia		21605	13.89	100	HEI9	Schwarzenburg, Switzerland	
16.81	50/80	WRUL		Worldwide Br. N.Y., USA		13.89	10/100	VUD		AIR, Delhi, India	
16.81	35/50/100			Tangier (VOA), Morocco		21610	13.88	110	WLWO	Bethany, USA	
17850	16.81	10/100		Allouis, France		13.88	7.5/100			BBC, Singapore	
16.81				Tiraspol, USSR		21615	13.88	15/100		BBC, London, Gt. Britain	
16.81	1/50	OEI75		Wien, Austria		13.88	10/100	VUD		AIR, Delhi, India	
16.81	50	WDSI		Brentwood, USA		21620	13.87	10/100		R. Free Europe, Germany	
16.81	10/100	VUD		AIR, Delhi, India		13.87	10/100			Allouis, France	
17855	16.80	10/100		R. Free Europe, Germany		13.87	10/100	VUD		AIR, Delhi, India	
16.80	35/100			Poro (VOA), Philipp.		21625	13.87			Kursk, USSR	
16.80	35/100			Tangier (VOA), Morocco		21630	13.87	15/100		BBC, London, Gt. Britain	
16.80	10/100	VUD		AIR, Delhi, India		13.87				Khabarovsk, USSR	
17860	16.80	15/100		BBC, London, Gt. Britain		21640	13.86	15/100		BBC, London, Gt. Britain	
16.80	25/100			Vatican Radio		21650	13.86	20/100	DMQ21	Deutsche Welle, Germany	
16.80	120/240			Peking, China		13.86	15/100			BBC, London, Gt. Britain	
16.80	20/100	ORU		Wavre, Belgium		13.86	50	WDSI		Wayne, USA	
17865	16.80	20		Damascus, Syria		21660	13.85	15/100		BBC, London, Gt. Britain	
16.80	20/50			R. Liberty, Germany		21665	13.8	10/100		R. Free Europe, Germany	
16.79				Khabarovsk, USSR		21675	13.84	15/100		BBC, London, Gt. Britain	
16.79				Komsomolsk, USSR		21680	13.84	10/50/100		R. Australia, Australia	
16.79	1/50	OEI76		Wien, Austria		21685	13.83	10/100	VUD	AIR, Delhi, India	
16.79	10			Accra, Ghana		13.83	10			Dacca, Pakistan	
17870	16.79	15/100		BBC, London, Gt. Britain		21690	13.83	50	WBOU	Bound Brook, USA	
16.79	50	WBOU		Bound Brook, USA		13.83	10/100	VUD		AIR, Delhi, India	
16.79	50	WDSI		Wayne, USA		13.83	20			Paradys, So. Africa	
17875	16.79	20/100	DMQ17	Deutsche Welle, Germany		21700	13.83	100	CSA49	R. Nacional, Portugal	
16.79				Ulan Ude, USSR		13.82	10/100	VUD		AIR, Delhi, India	
16.79	20/50			R. Liberty, Germany		21705	13.82	25/50/100		Tangier (VOA), Morocco	
17880	16.78	10/100		R. Free Europe, Germany		13.82	20/100	DMQ21		Deutsche Welle, Germany	
16.78				Petrovavlovsk, USSR		21710	13.82	15/100		BBC, London, Gt. Britain	
16.78	100	CSA45		R. Nacional, Portugal		21715	13.81	20/100	ORU	Wavre, Belgium	
17885	16.78	120/240		Peking, China		21720	13.81	7.5/100		BBC, Singapore	
16.78	10/100			R. Free Europe, Germany		13.81	15/100			BBC, London, Gt. Britain	
17890	16.77	15/50		BBC, London, Gt. Britain		13.81	10/100			R. Free Europe, Germany	
16.77	7.5/100			BBC, Singapore		21725	13.80	20/100	ORU	Wavre, Belgium	
16.77	30	HCJB		Voz de los Andes, Ecuador		21730	13.81	5	LLQ	R. Norway, Norway	
16.77	1/75			Taipei (BCS), Taiwan		21735	13.80	20/100	DMQ21	Deutsche Welle, Germany	
17895	16.76	100	CSA66	R. Nacional, Portugal		13.80	50	WDSI		Brentwood, USA	
16.76	10/100			R. Japan, Japan		21740	13.80	15/100		BBC, London, Gt. Britain	
16.76				Kaunas, USSR		21745	13.80	10/100		R. Free Europe, Germany	
17900	16.76	15/240		Peking, China		13.80	50/200	KCBR		Delano, USA	
			17910-21450 kc/s			*25000	12.00	0.1	WWV	Lanham, USA	
17920	16.74	50/100		Cairo, Un. Arab. Rep.					25600-26100 kc/s (11 m.b.)		
18080	16.59	15/100		BBC, London, Gt. Britain		25650	11.70	100		BBC, London, Gt. Britain	
*20000	15.00	1	WWV	Lanham, USA		25670	11.69	100		BBC, London, Gt. Britain	
		21450-21750 kc/s	(13 meter band)			25720	11.66	100		BBC, London, Gt. Britain	
21450	13.99	100		Praha, Czechoslovakia		25735	11.66	10		R. Australia, Australia	
21455	13.98	35/50/100		Tangier (VOA), Morocco		25750	11.65	100		BBC, London, Gt. Britain	
21460	13.98	50/80	WRUL	Worldwide Br., N.Y., USA		25840	11.61	100		BBC, London, Gt. Britain	
21460	13.98	50/200	KCBR	Delano, USA		25880	11.60	35/50/100		Tangier (VOA), Morocco	
21465	13.98	10		Dacca, Pakistan		25900	11.58	2	LLA	R. Norway, Norway	
21470	13.97	15/100		BBC, London, Gt. Britain							
21475	13.97			Novosibirsk, USSR							
21480	13.97	50/100		R. Nederland, Holland							
21485	13.96	110	WLWO	Bethany, USA							
	13.96	10/100		R. Free Europe, Germany							
21490	13.96	15/100		BBC, London, Gt. Britain							
	13.96	25/100		Vatican Radio							
21495	13.96	100	CSA67	R. Nacional, Portugal							
21500	13.95	50/80	WRUL	Worldwide Br., N.Y., USA							
	13.95	50		R. Brazzaville, Congo							
21510	13.94	20/100	ORU	Wavre, Belgium							
	13.94	110	WLWO	Bethany, USA							
21515	13.94	25/100		Vatican Radio							
	13.94	2	DZ18	Call of the Orient, Philipp.							
21520	13.94	100	HER8	Schwarzenburg, Switzerland							
21525	13.94			Vologda, USSR							
21530	13.93	15/100		BBC, London, Gt. Britain							
21535	13.93	0.5		ELWA, Liberia							
21540	13.93	10/50/100		R. Australia, Australia							
	13.93	1/50	OEI80	Wien, Austria							
	13.93	50	WBOU	Bound Brook, USA							
21545	13.92	100		Accra, Ghana							
21550	13.92	15/100		BBC, London, Gt. Britain							
	13.92			Chita, USSR							
21560	13.91	50/60/100		R. Roma, Italy							
21565	13.91	50/100		R. Nederland, Holland							
21570	13.91	50	WBOU	Bound Brook, USA							
21580	13.90	10/100		Allouis, France							
	13.90	10/100	VUD	AIR, Delhi, India							
21585	13.90	8/100		Munich (VOA), Germany							
21590	13.90	10/50		Karachi, Pakistan							
	13.90	25	WGEO	Schenectady, USA							
21600	13.89	10/100		R. Free Europe, Germany							

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DX-CLUBS OF THE WORLD

The Swedish section compiled by Christer Hederström in cooperation with Editor Arne Skoog.

BRAZIL: Brazilian DX-Club, P.O. Box 359, Niteroi, R.J. - **CANADA:** Canadian DX-Club, Lawrence Ave., Don Mills, Ont. - **DENMARK:** Danmarks Kortbølgeklub, Box 53, Frederikshavn. (See adv.) - **FINLAND:** DX Kerho Suomi, ry, Box 6246, Helsinki 31 (Publ.: DX) Finlands DX-Club, r.f., Posti Restante, Helsinki DX-prgrs. from Finnish Bc. Co. Publ.: Attention. Sec.: Log, reportsheets (English, Spanish) - **Finlands Svenska DX-Förbund**, Kungsgatan 11, Ekenäs. Affiliated DX Clubs: Jacobstads DX-Club, Vasa DX-Club, Esbo DX-Club, Västra Nylands DX-Club. - **FRANCE:** Club des Auditeurs de la Radio Mondiale, 79 Ave. Paul Vaillant Couturier, Vitry-sur-Seine (Publ.: La Radio Mondiale). - **GERMANY:** Bochum DX Club, Im Kempen 22, Bochum. - **GT. BRITAIN:** International Short Wave Club, 100 Adams Gardens Estate, London SE 16 (Publ.: International Short Wave Radio) - **International Short Wave League**, 12 Gladwell Rd., London N 8 (Publ.: Monitor) - **JAPAN:** Japanese Short Wave Club, Box 29, Sendai (Publ.: SW-DX Guide). - **NEW ZEALAND:** N.Z. DX Radio Association, 78 District Rd., Green Island, Dunedin W 2 (Publ.: Tune In, 58 Argyle Str., Dunedin W 1) - **N.Z. Radio DX League**, P.O. Box 178, Dunedin (Publ.: New Zealand DX Times) - **South Pacific Radio Listeners Club**, 3 Buick Str., Petone. - **NORWAY:** DX-Listeners Club, Breidablikk, pr. Tønsberg. (See adv.) - **SOUTH AFRICA:** Trans World Short Wave Club, 53 Westview Drive, Port Elizabeth. **SWEDEN:** DX-Alliansen, Sannadal, Lidö 2 (Publ.: Allians-Nytt). A national union for the following clubs and regional federations: Arctic Radio Club, P.O. Box 909, Skellefteå 2 (Only m.w.) - Bergslagens Radio Club, Västerplan 8B, Lindesberg (Publ.: Nattugglan). 2 clubs affiliated - **DX-Club** 57, Storgatan 24, Nässjö (Publ.: CQ-DX Bulletin) - **DX-Club** Lundensis, L:a Fiskaregatan 1, Lund (Publ.: Lundensis) - **Falkens DX-Klubb**, Box 47, Klintehamn (Publ.: Gute DX-aren). 2 clubs affiliated - **Halmstads Kortvågsklubb**, Fack 15, Halmstad 1 - **IOGT's DX-Klubb**, Vasagatan 9, Stockholm C. 2 clubs affiliated - **Malmö Kortvågsklubb**, Fack 7026, Malmö 7 (Publ.: Malmö DX-aren). 4 clubs affiliated - **Teknik för Allas Eterklubb**, Box 3137, Stockholm 3 - **The DX-Companions**, Box 35, Hällestad (Publ.: Rymdningst - Ungdomsnytt) DX-Klubb, Kungsgatan 18, Stockholm C. - **Viking DX-Club**, Sveavägen 110, Stockholm Va. (Publ.: Viking DX-ers Calling) - **Vällingby DX-Klubb**, Multråtgatan 25/6, Vällingby - **Västra Aros Lyssnarklubb**, Box 165, Västerås 1 (Publ.: Kortvägen) - **Gefleborgs DX-Förbund**, Box 1556, Bollnäs (Publ.: The DX-Voice of Tellus). 7 clubs affiliated - **Sydsveriges DX-Förbund**, Fredsgatan 4, Hälsingborg (Publ.: Eter-Aktuellt). 5 clubs affiliated - **Västerbottens DX-Förbund**, P.O. Box 19, Skellefteå 1 (Publ.: Substantial). 7 clubs affiliated. Clubs not affiliated to DX-Alliansen: Cometens DX-Club, Järnvägen, Härnösand - **DX-Klubben Centrum**, Tegnersgatan 1, Husvårna - **DX-Klubben Meteor**, HAL, Lidköping - **Globus DX-Klubb**, Ormarösvägen 25, Smålands Annerberg - **Gnesta DX-Klubb** Electron, Mosebacke 4, Gnesta - **Goodwill DX-Club**, Box 4235, Malmö 4 (Publ.: Calling all DX-ers) - **Göteborgs DX-Klubb**, Box 31004, Göteborg (Publ.: GDX-aren) - **Köpings Läroverks Radioklubb**, Köping - **Laponia Radio Club**, Box 3037, Skellefteå - **QSL-Jägarna**, Asprågränd 10, Ystad - **Seranta DX-Club**, Timotejvägen 1, Karlskoga (Publ.: Seranta DX-aren) - **Sinus DX-Club**, Karlskronavägen 23, Johanneshov (Publ.: Sinus DX-aren) - **Skönshögs DX-Klubb**, Hellerbergsgatan 17, Skönshög - **Sveriges Radioklubb**, Box 5083, Stockholm 5 (Publ.: DX-Radio. See adv.) - **Säffle Radioklubb**, V:a Storgatan 17, Säffle - **The Explorers DX-Club**, Axtorna, Köinge (Publ.: HF-Aktuellt) - **The Radio Club Ethers Explorers**, Norgegatan 4, Linköping - **Västmanlands DX-Klubb**, Lindvägen 5, Fagersta - **Ystads DX-Club**, Valdemarshög, Ystad.

The 3 Club-Federations in Sweden have following affiliated clubs: **GDXF** - **Gefleborgs DX-Förbund**: Bollnäs DX-Club, Gefle DX-Club, Hofors DX-Club, Kilafors DX-Club, DX-Klubben Tellus Söderhamn & Hudiksvall, DX Club Shortwave. - **SDXF** - **Sydsveriges DX-Förbund**: Svalans DX-Klubb, DX-Club 57, Osby Radio Club, Sundets DX-Club, Swedish Amateur Radiolisteners Club, Radioklubben Dipol - **VDXF** - **Västerbottens DX-Förbund**: Skellefteå DX-Club, Umeå DX-Club, Burträsk DX-Club, Moröns DX-Club, Vilhelmina Radioklubb, Flamingö DX-Club, Orions DX-Club.

U.S.A.: National Radio Club, 325 Shirley Ave., Buffalo 15, N.Y. Publ.: DX-News. BCB only - Newark News Radio Club, 215 Market St., Newark 1, N.J. Covers all DX-SW Ham. BCB, Monthly bulletin - Universal Radio DX Club, R.D. 1, Lake City, Pa. Publ.: Universalite. Covers S.W., H am - DX Unlimited S.W. Club, 7742 28th Ave., N.W., Seattle 7, Wash. - Worldwide Monitors Radio Club, 5 Grand Avenue, Caledonia, New York, USA, (Monthly bulletin).

LAST MINUTE INFORMATION AND CORRECTIONS:

ALBANIA: Home Sec. First Prgr.: W. starts at 05.00. Sun.: 05.00-10.00, 11.00-16.00. Foreign Sec. W. 15.00-15.30 Greek, 15.30-16.00 Italian on 1088 kc/s.

FRANCE: EUROPEAN SERVICE:

French: 20.00-21.00 on 5955, 6145, 7160, 9620 kc/s; 07.15-08.00 (L.L. in Spanish, Portuguese, English) on 7160 kc/s. Greek: 12.15-12.45. Hungarian: 18.15-19.00, 5955 kc/s. Polish: 19.00-20.00, 6145, 7160 kc/s.

OVERSEAS SERVICE: 05.30-06.00 (Mo.) III 15130 kc/s; 06.00-06.45 I 6145, 7240, 11885 kc/s; 07.00-08.00 II 11885, 17765, 21580 kc/s; 16.30-18.00 VII 9755, 11845, 15245 kc/s.

GERMANY SAARLÄNDISCHER RUNDfunk ADDR. Postfach 1050, Saarbrücken. M.W.-Prgr.: Mo.-Fri.: 04.57-08.30 (Fri. 08.10), 10.00-23.10. Sat. 04.57-23.10. Sun. 05.30-23.10. - **FM-Prgr.:** W. 17.00 (Sat. 13.00)-22.00. Sun. 07.15-13.00, 14.00-21.00. - **N.:** W. 17.00, 21.50. Sun.: 12.00, 18.30.

LEEWARD ISLANDS: ANTIGUA BROADCASTING SERVICE ADDR.: c/o Administration Bldg., Antigua. L.P.: Broadc. Officer: E. A. M. John. Broadc. Asst.: C. Matthews. **HOME SERVICE** in English: 644 kc/s 465 m 0.5 kW: 10.30-11.30, 16.00-18.00, 20.00-02.30.

ANN.: "This is the Antigua Broadcasting Service". - **V. by letter.**

RADIO MONSERRAT (Go.)

ADDR.: P.O. Box 201, Plymouth. Cable: Radmon.

HOME SERVICE in English: 1550 kc/s 193.5 m 0.25 kW. W.: 00.00-02.00. Sat.: also 15.00-16.00. Sun. 20.00-22.00.

ANN.: "This is R. Monserrat. The Friendly Station of the Leeward Islands, broadcasting on a frequency of 1550 kc/s in the medium wave band". - **V. by letter.**

LUXEMBOURG: On 233/15350 kc/s: D. 04.40 (Sun. 05.59)-23.00 in French. On 1439/6090 kc/s: German 12.00 (Sun. 13.00)-17.00. English: 18.00-23.00. **INTERNATIONAL PRGR.** in English, French, German: 23.00-02.00 on 233/1439/6090/15350 kc/s.

MONACO: TRANS WORLD RADIO: English: 19.30-20.40 (instead of 19.00-20.10). German: 16.35-17.05 (instead of 16.40-17.25), 19.00-19.25.

RHODESIA AND NYASALAND: Gwelo 10 kW: 2425 kc/s: General Sec.: 19.15-20.00. Comm. Sec.: 20.00-21.05 (Sat. 22.00). African "C" Prgr.: 04.00-06.10 (W), 14.45-19.00 on 3306 kc/s, 10.00 (Sun. 11.00)-14.45 on 7175 kc/s.

RUMANIA:

FOREIGN SERVICE: 100 kW: 155, 755, 5980, 5990, 6190, 7195, 7225, 9510, 9570, 11810, 11940, 15250, 15380 kc/s.

TO EUROPE: English: 19.30-20.00 6190, 7195, 9510 kc/s, 21.00-21.30 5990, 7195 kc/s, 22.30-23.00 155, 5990, 7195 kc/s - French: 11.30-12.00 11810, 11940, 15250 kc/s, 18.30-19.00 6190, 7195, 9510 kc/s, 20.30-21.00 5990, 7195 kc/s, 22.00-22.30 6190, 9510 kc/s - German: 19.00-19.30 5990 kc/s, 21.00-22.00 755 kc/s, 22.00-22.30 155, 5990, 7195 kc/s - Greek: 17.00-17.30 5990, 6190, 7195, 9510 kc/s, 18.00-18.30 755, 6190, 9510 kc/s, 20.30-21.00 755 kc/s, 21.00-21.30 6190, 9510 kc/s - Italian: 17.30-18.00 6190, 9510 kc/s, 18.30-19.00 5990 kc/s, 19.30-20.30 & 22.00-22.30 755 kc/s - Portuguese: 20.00-20.30 on 5990, 6190, 7195, 9510 kc/s - Rumanian: 21.30-22.00 on 6190, 9510 kc/s, 22.30-23.00 on 755, 6190 9510 kc/s - Serbian: 17.00-17.30 & 19.00-19.30 755 kc/s - Spanish: 20.30-21.00 6190, 9510 kc/s, 21.30-22.00 5990, 7195 kc/s.

TO EAST: Arabic: 16.30-17.00 5990, 6190, 7195, 7225, 9510 kc/s, 17.30-18.00 7195 kc/s - English: 15.00-15.30 11810, 11940, 15250 kc/s, 19.00-19.30 6190, 7195, 9510 kc/s - Persian: 15.30-16.00 5990, 6190, 7195, 9510 kc/s, 18.00-18.30 5990, 7195 kc/s - Turkish: 16.00-16.30 5990, 6190, 7195, 7225, 9510 kc/s, 17.30-18.00 755 kc/s.

TO AFRICA: English: 15.00-15.30 11810, 11940, 15250 kc/s - French: 19.30-20.00 5990 kc/s.

TO USA: English: 01.30-02.30 5980, 6190, 7195, 7225, 9510, 11810 kc/s, 03.00-03.30 & 04.30-05.00 on 6190, 7195, 7225, 9510, 9570, 11810, 15250 kc/s. - Jewish: 02.30-03.00 5980, 6190, 7195, 7225, 9510, 11810 kc/s. - Rumanian: 23.15-24.00 6190, 7195, 9510 kc/s, 03.30-04.00 6190, 7195, 7225, 9510, 9570, 11810, 15250 kc/s.

TO SO. AMERICA: Portuguese: 00.00-00.30 9580, 6190, 7195, 7225, 9510, 11810 kc/s. - Spanish: 00.30-01.30 5980, 6190, 7195, 7225, 9510, 11810 kc/s, 04.00-04.30 6190, 7195, 7225, 9510, 9570, 11810, 15250 kc/s.

WORLDWIDE BROADCASTING, INC.

WORLDWIDE ENGLISH SERVICE D. 15.00-18.30 on 21465, 17760, 17845, 15380, 15440. D. 19.05-23.00 on 21465, 17760, 17845, 15385, 15440. 23.15-00.30 9695, 15390, 15440.

News hourly at half past the hour. Financial news program, "American Business Bulletins", at 22.45, & 23.45.

News features: 19.45 & 23.15. Monday "Erwin D. Canham Views the News." Tues. Wed., and Thurs., "The World in New York." Fri. "Our Man at the UN."

Hit Parade: Sun 20.30 & 00.00.

WORLDWIDE SPANISH SERVICE D. 23.15 - 00.30 on 11855, 15220. 00.30 - 04.00 also on 9695, 15390, 15440. News 00.00, 01.30. El Mundo en que vivimos: Mon.-Fri. 00.30, incl. Listener's Corner. Special DX-ing Ham's, Stamp, Photography, Arts & Record Programs D. 02.45.

LUTHERAN HOUR 18.30-19.05. Mon. Hungarian & Greek; Tues., Czech & Ukrainian; Wed. Portuguese & Spanish; Thurs. Italian & German; Fri. Yugoslav & Rumanian; Sat. Polish & Russian.

TELEVISION: SAARLÄNDISCHES FERNSEHEN: ADDR.: Schloss Halberg, Saarbrücken. - **STATIONS:** add: Saarbrücken ch. E11 50/10 W, H. - St. Ingerth ch. E11 2/0.4 W, V - Neuweiler ch. E6 50/10 W, H - Mettlach ch. E9 3/0.6 W, H.

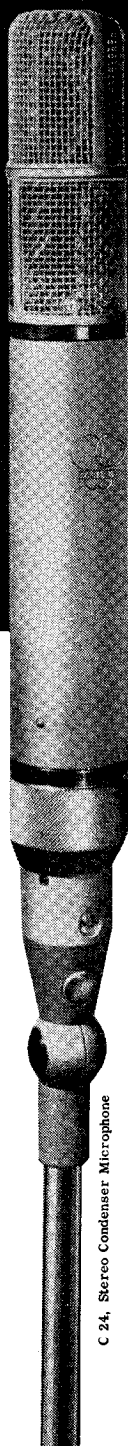
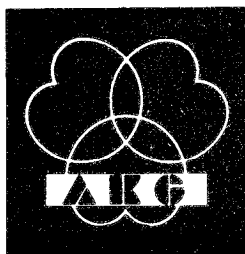
A DIRECTORY OF THE ADVERTISERS

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REPRESENTATIVES: Austria: Dir. Johann Lingl, Wirtschaftswer- bung, Wien III, Reiserstr. 3. - Belgium: Presselece, 3 avenue des Pinsons, Bruxelles 15. - Germany: Dr Günter Wolff & Co., Hamburg, Wellingsbüttel Barkenkoppel 31 - Tel. 565555/56. - Gt. Britain: L. Temple Rosswick Ltd., 3 Queens Court, Queensway, London W.2. Phone: BA5swater 5812. - Italy: Interstampa pubblicitaria Milhardo, Piazzo Cavour 2, Milano. Tel. 793.265. - Japan: Kyo Bun Kwan, 2 ginza 4 chome, Tokyo. - North America: Joshua B. Powers, Inc., 551 Fifth Avenue, New York 17, Phone: Murray Hill 2-1935.	

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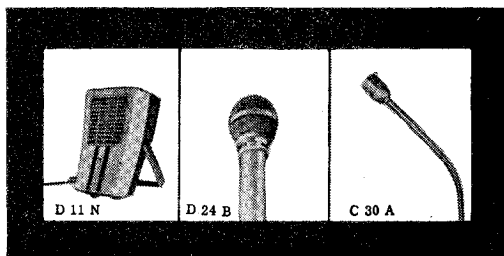
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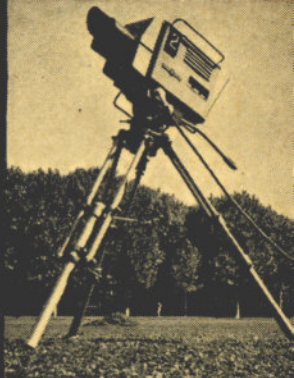


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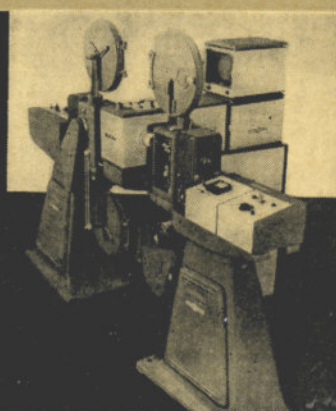
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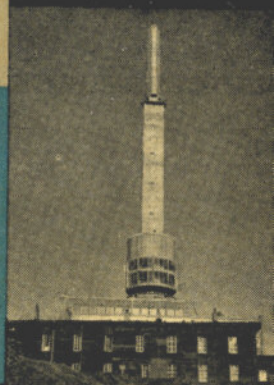
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